

# VINCENNES UNIVERSITY CATALOG

Vol. LXVIII

August, 2009

No. 60

**A**  
**COMPREHENSIVE TWO-YEAR COLLEGE**  
**OFFERING ASSOCIATE DEGREES IN THE**  
**LIBERAL ARTS, SCIENCE, EDUCATION, ENGINEERING,**  
**AND TECHNOLOGY**  
**AND OFFERING**  
**BACCALAUREATE DEGREES IN SPECIALIZED AREAS**

**Accreditation**

The North Central Association of Colleges and Schools  
30 North LaSalle Street, Suite 2400, Chicago, IL 60602  
(312) 263-0456 [www.ncacihe.org](http://www.ncacihe.org) FAX 312-263-7462

Accreditation Review Committee on Education in Surgical Technology  
American Bar Association  
American Board of Funeral Service Education  
American Health Information Management Association  
Association of Collegiate Business Schools and Programs  
Commission on Accreditation of Allied Health Educational Programs  
Commission on Accreditation in Physical Therapy Education  
Federal Aviation Administration  
Higher Education Coordinating Board of the State of Washington  
Indiana State Board of Nursing  
Joint Review Committee on Education In Radiologic Technology  
National Alliance of Concurrent Enrollment Partnerships  
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National Automotive Technicians Education Foundation  
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FAX NUMBER: 1-812-888-5868
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**ADDRESS: 1002 North First Street, Vincennes, Indiana 47591**

**PHONE: 812-888-8888**

**WEB: [www.vinu.edu](http://www.vinu.edu)**

**[myvu.vinu.edu](http://myvu.vinu.edu)**



*Dr. Richard E. Helton  
Twenty-First President of Vincennes University*

***COMMITMENT TO SERVICES:***

All employees of Vincennes University are committed to delivering professional instruction and quality service in a timely, caring, and courteous manner.

**ABOUT THE COVER:** The cover of the 2009-10 Vincennes University Catalog was designed and developed by Graphic Design student Tonya Barnes with the assistance of Graphic Design Professors Brad Rock and Ron Wise and Art-Graphic Design Professor Pravin Sevak. Photography was provided by Dave Fisher, Media Services, Learning Resources Center, Vincennes University.

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# 2009-10 Vincennes University Calendar

## Fall Semester 2009

START VU, Late Registration.....	Thursday, August 20
New Student Orientation begins.....	Friday, August 21
Classes begin.....	Monday, August 24
Drop and Add.....	Monday-Friday, August 24-28
Labor Day (No classes).....	Monday, September 7
Last day for students to withdraw from first 8-week courses without appropriate division dean's approval.....	Friday, September 25
Midterm Examinations.....	Monday-Friday, October 12-16
Midterm Break (No classes).....	Monday, Tuesday, October 19, 20
Begin Advising and Registration for Spring.....	Monday, October 26
Last day for students to withdraw without appropriate division dean's approval.....	Friday, October 30
Graduation Application Deadline – Fall.....	Friday, October 30
START VU, New Student Registration.....	Saturday, November 14
Last day for students to withdraw from second 8-week courses without appropriate division dean's approval.....	Friday, November 20
Thanksgiving Break (No classes).....	Wednesday-Friday, November 25-27
Last day for faculty to withdraw students for non-attendance.....	Monday, November 30
Midyear Commencement (Vincennes Campus).....	Saturday, December 12
Final Examinations.....	Monday-Saturday, December 14-19

## Spring Semester 2010

START VU, New Student Registration.....	Friday, January 8
Late Registration.....	Friday, January 8
Classes begin.....	Monday, January 11
Drop and Add.....	Monday-Friday, January 11-15
Martin Luther King and Presidents Day (No classes).....	Monday, January 18
Last day for students to withdraw from first 8-week courses without appropriate division dean's approval.....	Friday, February 12

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**2009-10 Vincennes University Calendar Continued**

Midterm Examinations .....	Monday-Friday, March 1-5
Midterm Break (No classes).....	Monday-Friday, March 8-12
Begin Advising and Registration for Fall and Summer .....	Monday, March 15
Graduation Application Deadline – Spring .....	Friday, March 19
Last day for students to withdraw without appropriate division dean's approval.....	Friday, March 26
Good Friday (No classes).....	Friday, April 2
Last day for students to withdraw from second 8-week courses without appropriate division dean's approval .....	Friday, April 9
Last day for faculty to withdraw students for non-attendance .....	Friday, April 23
Commencement (Vincennes Campus) .....	Saturday, May 1
Final Examinations.....	Tuesday-Saturday, May 4-8
Commencement (American Sign Language – Indianapolis).....	Thursday, May 6
Commencement (Aviation Technology Center – Indianapolis).....	Friday, May 7
Commencement (Jasper Campus).....	Saturday, May 8

<b>Summer Sessions 2010</b>	
Intercession.....	Monday, May 10 through Friday, May 28
Summer I Session.....	Wednesday, June 2 through Wednesday, July 7
Summer II Session.....	Thursday, July 8 through Wednesday, August 11
8 Week Session .....	Monday, June 7 through Monday, August 2
10 Week Session .....	Wednesday, June 2 through Wednesday August 11

**Summer Session Dates to Remember**

Memorial Day (No classes).....	Monday, May 31
Registration for Summer I and 10-week Session .....	Tuesday, June 1
Last day for students to withdraw from Summer I courses without appropriate division dean's approval .....	Friday, June 25
Independence Day (No classes).....	Monday, July 5
Registration for Summer II.....	Wednesday, July 7
Last day for students to withdraw from Summer II courses without appropriate division dean's approval .....	Monday, August 2

**New Student Advising and Registration for Fall Semester**

Advising for Incoming Freshmen..... June 21-July 31

<b>2010</b>																											
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# 2010-11 Vincennes University Calendar

## Fall Semester 2010

START VU, Late Registration.....	Thursday, August 19
New Student Orientation begins.....	Friday, August 20
Classes begin.....	Monday, August 23
Drop and Add.....	Monday-Friday, August 23-27
Labor Day (No classes).....	Monday, September 6
Last day for students to withdraw from first 8-week courses without appropriate division dean's approval.....	Friday, September 24
Midterm Examinations.....	Monday-Friday, October 11-15
Midterm Break (No classes).....	Monday, Tuesday, October 18, 19
Begin Advising and Registration for Spring.....	Monday, October 25
Last day for students to withdraw without appropriate division dean's approval.....	Friday, October 29
Graduation Application Deadline – Fall.....	Friday, November 5
START VU, New Student Registration.....	Saturday, November 13
Last day for students to withdraw from second 8-week courses without appropriate division dean's approval.....	Friday, November 19
Thanksgiving Break (No classes).....	Wednesday-Friday, November 24-26
Last day for faculty to withdraw students for non-attendance.....	Monday, November 29
Midyear Commencement (Vincennes Campus).....	Saturday, December 11
Final Examinations.....	Monday-Saturday, December 13-18

## Spring Semester 2011

START VU, New Student Registration.....	Friday, January 7
Late Registration.....	Friday, January 7
Classes begin.....	Monday, January 10
Drop and Add.....	Monday-Friday, January 10-14
Martin Luther King and Presidents Day (No classes).....	Monday, January 17
Last day for students to withdraw from first 8-week courses without appropriate division dean's approval.....	Friday, February 11

2010																												
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**2010-11 Vincennes University Calendar Continued**

Midterm Examinations .....	Monday-Friday, Feb. 28-March 4
Midterm Break (No classes) .....	Monday-Friday, March 7-11
Begin Advising and Registration for Fall and Summer .....	Monday, March 14
Last day for students to withdraw without appropriate division dean's approval .....	Friday, March 25
Graduation Application Deadline – Spring .....	Friday, March 25
Last day for students to withdraw from second 8-week courses without appropriate division dean's approval .....	Friday, April 8
Good Friday (No classes) .....	Friday, April 22
Last day for faculty to withdraw students for non-attendance .....	Monday, April 25
Commencement (Vincennes Campus) .....	Saturday, April 30
Final Examinations .....	Tuesday-Saturday, May 3-7
Commencement (American Sign Language – Indianapolis) .....	Thursday, May 5
Commencement (Aviation Technology Center – Indianapolis) .....	Friday, May 6
Commencement (Jasper Campus) .....	Saturday, May 7

<b>Summer Sessions 2011</b>	
Interession .....	Monday, May 9 through Friday, May 27
Summer I Session .....	Wednesday, June 1 through Wednesday, July 6
Summer II Session .....	Thursday, July 7 through Wednesday, August 10
8 Week Session .....	Wednesday, June 1 through Wednesday, July 27
10 Week Session .....	Wednesday, June 1 through Wednesday August 10

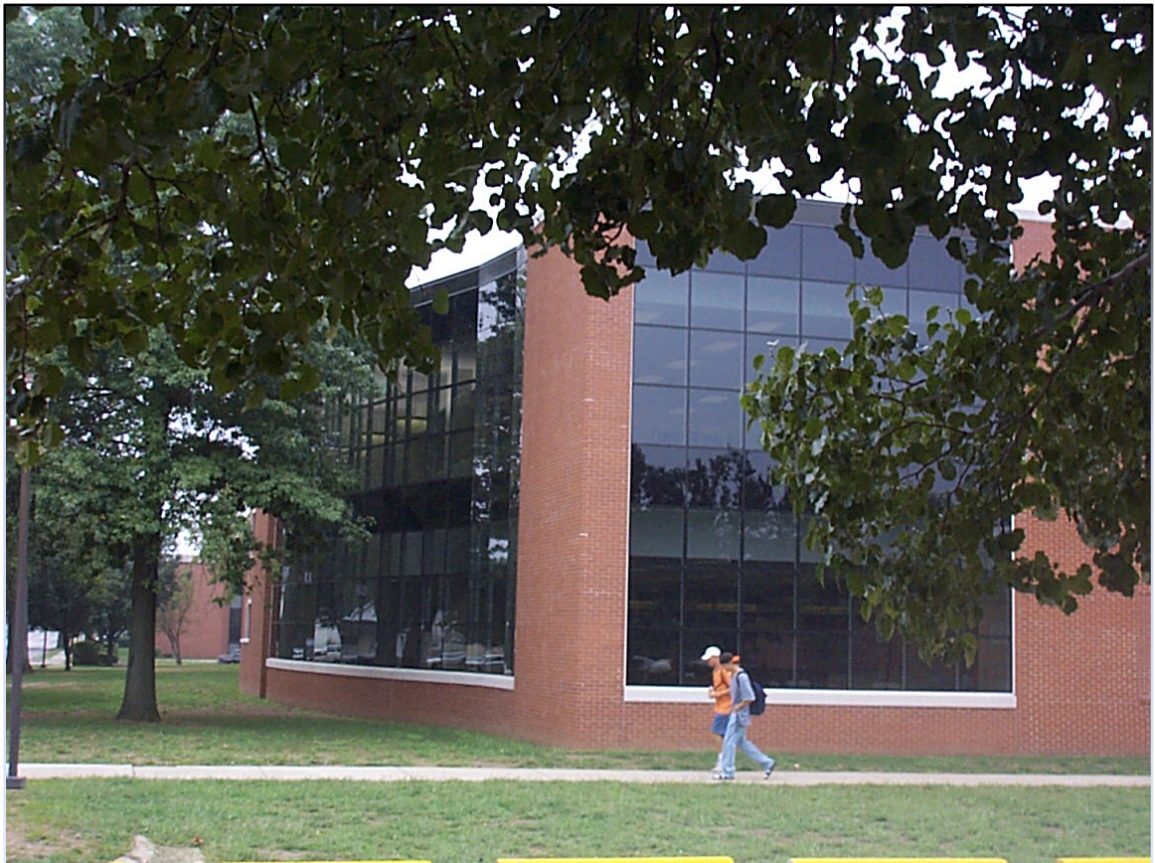
**Summer Session Dates to Remember**

Memorial Day (No classes) .....	Monday, May 30
Registration for Summer I and 10-week Session .....	Tuesday, May 31
Last day for students to withdraw from Summer I courses without appropriate division dean's approval .....	Friday, June 24
Independence Day (No classes) .....	Monday, July 4
Registration for Summer II .....	Wednesday, July 6
Last day for students to withdraw from Summer II courses without appropriate division dean's approval .....	Monday, August 1

**New Student Advising and Registration for Fall Semester**

Advising for Incoming Freshmen .....	June 20-July 30
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<b>2011</b>																																						
<b>January</b>							<b>February</b>							<b>March</b>							<b>April</b>																	
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*Shake Learning Resources Center*



# Introduction

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## A Brief History of Vincennes University

One of the first two-year colleges in America, Vincennes University is also Indiana's oldest college. The heritage of the University began with the Northwest Ordinance of 1787 which stated, "Religion, morality, and knowledge being necessary to good government and to the happiness of mankind, schools and the means of education shall forever be encouraged."

In 1801 Jefferson Academy, the direct forerunner of Vincennes University, was founded at Vincennes, Indiana. The Indiana territorial legislature, at its first session in 1806, passed an act to incorporate the first university in the Indiana Territory, "to be called and known by the name and style of Vincennes University." William Henry Harrison, first governor of the Indiana Territory, and later (1841) President of the United States, was the founder of the college and the first chairman of the Board of Trustees of the University.

Vincennes University has had a distinguished history, rich with the traditions of many firsts. In the Vincennes University catalog of 1899, the statement appeared that, "Vincennes University is in fact a junior college offering the first two years of the regular college programs." By that statement, Vincennes University claims to be one of the first colleges to develop and recognize the junior college concept in higher education.

Today, the University is a model comprehensive two-year "university" offering more than 150 associate degree programs and options, and seven baccalaureate degrees in specialized areas. Vincennes University has a statewide mission and is a fully state-supported college, recognized as being unique in Indiana. In addition to the Vincennes campus, the University has a second campus at Jasper, Indiana and major extension sites at the International Airport in Indianapolis and the Indiana School for the Deaf, also in Indianapolis.

The University's motto as translated from the official seal is, "Learn in Order to Serve." For the past two centuries, for today, and into the future Vincennes University students and graduates strive to make that goal a reality in their lives.

## Our Vision and Mission

### Vincennes University Vision

Vincennes University is a premier learning institution, widely recognized for leadership in innovation and delivery of successful educational experiences. A breadth of program offerings and a commitment to quality service ensure the University's role as an important link in Indiana's economic and cultural vitality. VU is a diverse community whose members all share responsibility for supporting the University mission and are respected for their contributions.

### Vincennes University Mission

**Vincennes University, Indiana's first college, is the State's premier transfer institution and leader in innovative career programming. The VU community ensures educational access, delivers proven associate and baccalaureate programs, and offers cultural opportunities and community services in a diverse, student-centered, collegiate environment.**

## Our Mission in Practice

**Vincennes University, Indiana's first college...** Jefferson Academy, the direct forerunner of Vincennes University, was founded at Vincennes, Indiana in 1801. The Indiana territorial legislature passed an act in 1806 to incorporate the first university in the Indiana Territory, "to be called and known by the name and style of Vincennes University." William Henry Harrison, first governor of the Indiana Territory and later President of the United States, was the founder of the college and first chairman of the Board of Trustees.

**is the State's premier transfer institution...**Vincennes University has been recognized for decades as a source of highly qualified, transfer-ready graduates. VU's transfer programs are designed in coordination with four-year institutions to ensure successful transfer. The university maintains more than 1,000 transfer agreements through close faculty-to-faculty contacts with senior institutions. VU graduates compete successfully with students from four-year institutions in acceptance to limited-admission professional programs. The performance of graduates at four-year institutions is monitored systematically and points to the quality of VU's transfer programs.

**and leader in innovative career programming...**Vincennes University provides certificate, associate, and baccalaureate career programs that lead directly to successful employment. However, many programs are both transfer and career in nature, allowing a choice of entering the workplace or continuing toward an associate or baccalaureate degree. Employers recognize Vincennes University's reputation for quality and innovation as evidenced by high placement rates and positive responses to employer surveys. VU continues to work with employers in program development and revision to ensure that graduates possess the necessary skills to make them valuable contributors to the workforce.

**The VU community ensures educational access...**Vincennes University is the college of choice for many top high school graduates, but the institution also provides developmental education for those whose academic skills are not at the collegiate level. VU provides post-secondary education to students from more than 100 countries and through distance education but is also a preferred choice for many within the nearby geographic area. Educational services are provided on two established campuses and sites worldwide, but new learning sites are also established in rapid response to industry needs. The University strives to control its tuition and fees but also facilitates all forms of public and private financial aid, so that all those with the ability to benefit from a college education may find it at Vincennes University.

**delivers proven AS and BS programs...**Vincennes University embraces responsibility for continuing a rich tradition of academic excellence. VU offers a comprehensive array of certificate, associate and baccalaureate degree programs. The University assures that each program provides the highest level of instruction and preparation for continued study and career achievement. The quality of VU's programs is proven by the history of effective articulation, graduate success in career placement, and recognition by professional accrediting bodies. The University is fully accredited by the North Central Association of Colleges and Schools.

**offers cultural opportunities...**Vincennes University offers entertainment and cultural programs, such as the Community Series, University musical and theatrical productions, and faculty and guest art exhibits to students and area residents. Community forums, VU athletic activities, and other local interest programs are broadcast by the University's radio and television stations. Guest lecturers and student activities in a wide range of subject areas are offered to the University and surrounding communities. The Vincennes campus is the location of the state-of-the-art Red Skelton Performing Arts Center.

**and community services...**Vincennes University oversees a variety of programs to benefit the community. Among these are services to senior citizens, those who have not completed high school, potential entrepreneurs, displaced workers, those who need retraining, and other populations seeking education and training services. VU serves as the fiscal agent and administrator for many programs funded through the state and federal governments.

**in a diverse...** Vincennes University values diversity and believes this is an important aspect of the educational experience. Members of the VU community are encouraged to develop and apply critical thinking skills to unexamined assumptions and stereotypes. Multicultural campus activities provide a structured opportunity for building alliances among students from diverse backgrounds. The University prepares students to be contributing citizens in a global society.

**student-centered...** Vincennes University is a community fully dedicated to the enhancement of student learning. VU is committed to helping students establish a lifetime of growth in their academic, co-curricular, social, moral and civic endeavors. The University validates the effectiveness of all activities and services through a comprehensive assessment process. Decisions on a student-centered campus are made in the interest of the greater student population. Whether addressing learning, scholarship or community service, the University's activities are directed toward positively impacting student success.

**collegiate environment...** Vincennes University includes two campuses in southwestern Indiana and two learning sites in Indianapolis. The Vincennes campus provides a 135 acre residential campus with more than 50 buildings; the Jasper campus encompasses 130 acres with an abundance of resources typically found only at a residential campus. Two sites in Indianapolis have been established in response to the demand for interpreters of American Sign Language and trained aviation maintenance technicians. Each VU location provides an attractive setting where learning is paramount, and where student participation is encouraged in activities that build skills for careers, for enrichment, and for lifelong learning.

### **Institutional Functions**

As an institution of higher education, Vincennes University is committed to provide

A comprehensive range of transfer curricula for those who want to complete a baccalaureate degree at another institution by offering the first two years of many baccalaureate programs.

A comprehensive range of occupational programs for those who want to begin employment with job entry skills upon the completion of their occupational programs at Vincennes University.

Baccalaureate degrees in specialized areas for those who want to complete a baccalaureate program at Vincennes University.

General education for all students for the purpose of broadening their understanding of life and their ability to function as citizens in today's society.

Developmental education for those who need it in order to succeed in the occupational or transfer programs of their choice.

A comprehensive range of student support services aimed at enhancing students' academic, personal and social development.

Adult continuing and adult basic education for those who want to prepare for the General Education Development (GED) test or to upgrade their job competencies, improve basic educational skills, and/or gain knowledge of subjects of their own personal interest, or to complete requirements for a certificate or associate degree program of their choice.

A comprehensive program of community services and resources for the community by developing specialized opportunities for preparation when occupational needs can be served, by initiating programs of benefit to the community, and by making the resources of the University available for community betterment.

### **Institutional Objectives**

Vincennes University commits to providing an environment, personnel and facilities that enhance the commitment of VU to

***Prepare Students to Transfer to Four-Year Colleges and Universities***. Vincennes University has a well-established history of success in and a continuing commitment to preparing students in the first two years of many baccalaureate programs. Substantial offerings and programs in a wide variety of instructional areas, advanced placement policies, developmental and refresher courses, and a variety of instructional techniques allow the University to tailor programs appropriate to the individual needs of students so that they can reach their academic transfer goals. In all instructional programs, Vincennes University students have practical learning experiences, often including leadership and performing opportunities, normally denied first- and second-year students at baccalaureate educational institutions.

***Prepare Students for Successful Job Entry Through Occupational Education.*** Vincennes University has a well-established history of success in and a continuing commitment to excellence in occupational education. The University offers a wide variety of occupational programs that include general education and other support courses. The major purpose of occupational education is to prepare students for successful job entry. Also, a significant number of occupational graduates transfer to continue their education toward an advanced degree.

The University supports gender equity in all of its programs. Male and female students who wish to pursue majors in programs non-traditional for their gender have the opportunity and the encouragement to do so at Vincennes University.

***Allow Students to Complete a Baccalaureate Degree in Specialized Areas.*** Consistent with its early mission and history, Vincennes University offers a limited number of baccalaureate degrees. The purpose of these degrees is to prepare students for successful job entry or for graduate degree education.

***Allow Students to Begin Their Postsecondary Education at Their Levels of Readiness.*** The University works to help students make an effective transition from high school to college. Through academic advising and personal counseling, the University helps students select programs consistent with their goals and courses in which they have reasonable chances to succeed. Opportunities for advanced placement, early completion in courses, as well as courses to overcome educational limitations are available to students.

***Provide General Education for All Students for the Purpose of Personal Enrichment.*** The distribution of course requirements in the various divisional areas of study, comprehensive survey courses, functional courses, the broad spectrum of extra-curricular activities, and special cultural convocations and programs offer opportunity for general education to all students.

***Provide Guidance and Opportunity for Exploration to Those Students Uncertain About Their Educational Goals.*** The University provides opportunities for students to experience a diversity of academic and occupational alternatives. It offers its students personal assistance in career decisions through academic advising, counseling, interest and aptitude testing, and career information services. Flexible academic regulations allow students to change educational objectives with minimal loss of time and credit.

***Provide a Campus Environment Conducive to Personal Development.*** The University, through its campus organizations, campus activities, and on-campus residence halls, provides an environment conducive to personal development. Students may pursue special interests, develop leadership, and find social expression and membership in various organizations and activities. Students may participate in intercollegiate and intramural athletic teams and activities, with equipment and facilities also provided for individual recreation. Numerous opportunities occur for the development and display of students' talents in the performing, visual, communicative, and literary arts. On-campus residence halls provide an additional dimension for the interaction of students from diverse geographical regions, countries, and cultures.

***Assist Students in College Transfer and Job Placement.*** Each year a large percentage of Vincennes University students transfer successfully to more than one hundred baccalaureate colleges and universities. The University's continuous communication and articulation with other postsecondary educational institutions, businesses and industries and the personal guidance by the faculty, staff, and placement personnel assist students in achieving successful transfer and/or job placement.

***Provide Continuing Education and Educational Outreach Services.*** Vincennes University has a statewide mission to deliver credit and non-credit educational programs to Indiana residents upon request. In fulfilling this mission the University has established numerous community-based teaching sites including: those developed in cooperation with high schools; the Aviation Technology Center at Indianapolis, Indiana; the Indiana Deaf School; Indiana Corrections Sites; the Jasper campus; and selected National Guard Armories and Army Reserve Centers. To serve Indiana residents who have part-time military obligations and other military personnel, the University has established teaching sites in such locations as diverse as the National Guard Professional Education Center at Camp Robinson, Little Rock, Arkansas; in San Diego to serve not only the Naval Air Base, but also the Amphibious Base at Coronado, and the Naval Hospital at Balboa, and the Naval Air Station in El Centro; two naval bases in Washington, the Amphibious

Base at Bremerton and the Submarine Base at Bangor; the Coast Guard Base in Newport, Oregon; and several U.S. Army or multiservice programs at Ft. Benning, Georgia, Ft. McCoy in Wisconsin, and Selfridge, Michigan. The Military Education Program has generated requests for classes from across the United States and its Territories, and University personnel have responded with at least limited offerings.

The Vincennes University Jasper Campus offers many community services to the citizens of Dubois County and surrounding counties, particularly the opportunity to complete credit courses leading to the associate degree in transfer and occupational programs as well as a number of specialized baccalaureate degrees. The Jasper Campus, in addition, offers non-credit courses.

The Degree Completion Program provides opportunities for students to complete an associate degree via independent study when Vincennes University courses are not otherwise available.

***Offer a Variety of Educational and Cultural Services to its Communities.*** The University's radio stations, television station, and campus events are used for the dissemination of educational and cultural opportunities. Entertainment and cultural programs are offered to area residents through the Community Series and the University's musical and theatrical productions and art shows.

***Provide Diverse Educational, Economic and Training Programs to Designated Clients Throughout the University's Service Area.*** The University administers major federal and state-funded community-based service programs for a variety of constituencies. Educational Opportunity Programs consist of Education Talent Search, COPE Student Support Services, Upward Bound and Veterans Upward Bound for the first generation college students, students with special economic or educational needs and Vietnam Era Veterans. The Generations Program provides essential social and human services to eligible elderly and disabled clients including CHOICE, Nutrition, Ombudsman and Legal Services, Employment, Nursing Home Pre-admission Screening, Medicaid Waiver Program, and the Retired Senior Volunteer Program. Workforce Development Services delivers employment, training and economic development opportunities to eligible clients, business and industry plus Adult Basic Education, the Business and Industry Assistance Program, IMPACT and Single Parent Displaced Homemaker Services.

***Provide Opportunity for International and Intercultural Understanding.*** Students from various countries around the world add an international dimension to the University's campus. Some of the international students need the special services of the English as a Second Language Program. Their presence emphasizes the importance of programs and activities that provide opportunities for person-to-person understanding across national lines, for the inclusion of academic units that promote world understanding, and for the kind of activities that introduce students and the community at large to major international issues. International emphasis programs, including the activities of the host families, are illustrative of the special International students' projects. The Office of Multicultural Services offers a variety of activities and events to promote understanding and appreciation of the cultural diversity present on our campus, in our communities, and around the world. A number of special activities such as a week honoring Dr. Martin Luther King, Jr. are held as well as a number of workshops emphasizing issues of cultural diversity.

# Admission and Financial Aid

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## Requirements for Admission

Vincennes University maintains an "Open Door" admissions policy. Students are eligible for admission on the basis of graduation with a diploma (a certificate of completion is not sufficient) from accredited high schools, successful completion of the General Education Development Test (GED), or transfer in good standing from accredited colleges. Vincennes University also welcomes students graduating from accredited Internet high school, schools which are not yet accredited or from home schooling programs. Students completing these programs should supply the Admissions office with an academic portfolio or detailed transcript (each course briefly described) annotated with graduation date. Special consideration may be given to those who have not completed one of the above. Vincennes University supports the State of Indiana's Core 40 high school curriculum (See explanation below.). It is strongly recommended that students meet the Core 40 requirements, but completion of the Core 40 curriculum is not required for Admissions. Vincennes University reserves the right to deny admission or continuing enrollment to those persons who cannot benefit from the educational services available. Students should contact the Director of Admissions.

### CORE 40 -- INDIANA'S HIGH SCHOOL CURRICULUM

Indiana students, who want to be considered for regular admission to Indiana's four-year colleges and be eligible for additional state financial aid, must successfully complete the Indiana Core 40. The same courses are suggested for students planning to seek admission to a two-year public college or entry into the workforce. The following represents Core 40 as adopted by the Indiana Department of Education.

1. Take 28 to 30 credits from this list. In order to graduate from high school in Indiana, you must earn a minimum of 38 credits. The Core 40 goes beyond this state minimum. In addition, your high school may have additional requirements for high school graduation. (*One credit equals one semester or one-half of a school year, except for physical education.*)

**Language Arts** - 8 credits in literature, composition, and speech

**Mathematics** - 6-8 credits of Algebra I, Geometry, Algebra II, Trigonometry, Calculus

**Science** - 6 credits in laboratory science from the following:

2 Biology

2 Chemistry or Physics

2 additional credits from Chemistry, Physics, Earth/Space Science, Advanced Biology, Advanced Chemistry, or Advanced Physics

**Social Studies** - 6 credits distributed as follows:

2 U.S. History

1 U.S. Government

1 Economics

1 World History and/or Geography

1 additional course from above or other approved social studies area

**Physical Education** - 1 credit (two semesters)

**Health/Safety** - 1 credit (two semesters)

2. Choose 8 credits in courses from the list above or the list below.

**Foreign Languages** - Such as Chinese, French, German, Italian, Japanese, Latin, Russian, Spanish

**Arts** - Take 1 or more years of art, music or drama

**Computers** - Computer applications, computer programming

**Career Area** - At least six credits in a logical sequence from a technical field.

Choose 2 to 4 more credits from any courses at your school.

**Admission into selected programs, whether associate or baccalaureate degree, is necessarily limited by facilities and other resources. In the same way admission to the University may, from time-to-time, be capped or deferred when our capacity to serve students has been reached.** The following credentials are required for admission:

1. **Formal Application for Admission.** A non-refundable matriculation fee of \$20 must accompany the completed application.
2. **Transcript of High School Record.** A high school transcript and/or GED scores must be on file in the Admissions Office. A student should request these be forwarded by the high school counselor. High school students who apply for admission will be admitted provisionally pending receipt of a final transcript with a graduation date posted.
3. **ACT-SAT.** Vincennes University does not require the ACT or SAT for admission. However, any student applying for an academic scholarship must submit ACT or SAT scores for evaluation.
4. **Placement Test Scores.** All students who have applied and been accepted for admission to the University must take the Accuplacer Computerized Placement Test (CPT) before they will be able to register for classes. Students may take the test early at the Vincennes University Assessment Center or an approved alternate test site. Arrangements may be made by calling the Assessment Center at 812-888-5404. Students may also wait to take the test when they come for registration (Start VU). The English and Reading Departments also use the SAT for initial course placements.
5. **Health Science Majors.** Entrance into these programs is based upon adequate academic qualifications. All applicants must first be accepted into the University and take the Accuplacer before they will be considered for acceptance to a health science program. These programs of study are Associate Degree Nursing, Funeral Service Education, Health Information Management, Physical Therapist Assistant, Practical Nursing, and Surgical Technology. Acceptance involves an evaluation of candidates in terms of academic grades, test scores, class rank, and in some instances, personal interview. All applicants for these programs are reviewed by an admission committee composed of the Health Sciences and Human Performance Division Dean and appropriate health program director. Applicants must file all required credentials prior to being evaluated.

### **Transfer Applicants**

Transfer applicants, in addition to the above credentials, must provide an official transcript (transcripts mailed from another college or university directly to Vincennes University) from each college attended, showing evidence of honorable release. Grades below C- may not be transferred for credit. Students dismissed from another college are normally not eligible for admission until one semester has elapsed. However, applicants with unusual circumstances may warrant special consideration.

Transfer applicants will be considered for freshman through junior status in Vincennes University's Teacher Education baccalaureate programs dependent on application review and academic credentials as outlined on the respective curriculum pages. Transfer applicants for junior status in Vincennes University's Healthcare Management, Nursing, Homeland Security, and Technology baccalaureate programs must submit documentation (an official transcript from the degree-granting institution sent **directly** to the Registrar of Vincennes University) of a completed associate degree in one of the "feeder" programs designated within the curriculum pages of those programs. Both native and transfer applicants who are within six hours of their associate degree completion may conditionally begin their intended baccalaureate program if the remaining courses are not prerequisites for the courses to be taken in that first semester; conditionally admitted students must complete those remaining credit hours by the end of their first semester as juniors. If the courses involved are sequential and not prerequisites to courses required in the first two semesters of the program, students will have two semesters to complete the missing hours.

Entrance into all baccalaureate programs requires at least a 2.0 G.P.A. in lower division courses. Some programs, like the Teacher Education programs, will require at least a 2.75 G.P.A. for program admission.



### **Provisional Acceptance**

Provisional admission may be offered to students who do not provide the university with all the necessary documents for official admission. Transfer students who apply with an unofficial college transcript, but have a grade point average of at least a 1.5, will be admitted provisionally pending receipt of a final official transcript. All students who are admitted on a provisional basis will have one semester to produce the requested documentation. Failure to produce the requested documentation will result in the student being unable to register for subsequent semesters. Other provisional admission decisions will be made at the discretion of the Director of Admissions.

### **International Applicants**

International applicants, in addition to the above credentials, must submit one copy of the official sponsor's statement, a certified copy of their sponsor's bank statement, and translations of secondary and postsecondary transcripts (where applicable). A *Test of English as a Foreign Language* (TOEFL) score is not required for admission. Students who have completed the *English as a Second Language* (ESL) requirements or who submitted a *Test of English as a Foreign Language* (TOEFL) score of 527 or above (computer-based test of 197 or Internet-based score of 71) must take the College Placement Test before registering for college-level courses.

At the current time, the Aviation Technology Center will employ a 500 TOEFL score for unconditional acceptance to the Aviation Maintenance Technology program at the Indianapolis International Airport.

## **Financial Aid**

### **Purpose**

To provide students an opportunity for post-secondary education and to promote academic excellence at Vincennes University, the financial aid program is designed to function as a multi-purpose financial assistance service for students. One important purpose of the program is to reward outstanding students for past academic accomplishments and those who seem to have outstanding potential. Another purpose is to provide assistance to students who, without such aid, would be unable to attend college. Basic to this philosophy is the belief that the educational opportunities of able students should not be hindered by their financial resources.

Vincennes University provides a variety of financial aid for students in the form of grants, loans, part-time employment, and scholarships.

### **Eligibility**

The eligibility for receiving financial assistance is determined by comparing the cost of attending Vincennes University with the parents' and the student's ability to contribute toward his/her expenses. Financial aid is viewed as being supplemental to all other resources to meet these costs. The goal of the Financial Aid Office is to meet the evaluated need of all eligible students.

The evaluated financial need equals the difference between the total estimated cost of attending Vincennes University (including all university charges--room and board, books and supplies, personal expenses, and allowable travel expenses) and the ability of the family to contribute to those educational costs. The factors taken into consideration when evaluating the expected family contribution include parental income and assets, and benefits such as those from Veterans' Administration, rehabilitation awards from outside agencies, and the student's assets and expected savings from summer employment. The basis for determining the family contribution is from the U.S. Department of Education Student Financial Assistance Programs' Free Application for Federal Student Aid (FAFSA).

Each year that a student wishes to be considered for aid, a FAFSA Form must be filed, listing VU as a school of choice. Approved awards for each year will be based upon proper completion of and timely filing of applications and financial statements, availability of federal and/or university funds, eligibility for the individual programs for which the student is applying, and the applicant's continued enrollment. The amount of assistance may increase or decrease from one

year to the next depending upon the educational costs, the financial circumstances of the family, and the level of program funding.

Continued eligibility for the various financial aid programs will require the following: (1) continued enrollment; (2) satisfactory academic standing and the progression toward a degree; (3) properly completed and timely filed applications; (4) all university accounts due and payable being current; (5) satisfactory employment if previous student worker; (6) remain eligible by the individual program guidelines; (7) sign an affidavit that all federal financial aid funds received will be used for the applicable payment period for educational expenses; (8) sign necessary documents for the receipt of aid awards; (9) not be in default on a Federal Family Education Loan Program loan; (10) not owe a refund on a Federal Pell Grant, Federal Perkins Loan, Federal Supplemental Educational Opportunity Grant, or Federal Academic Competitiveness Grant previously received.

### **Selection of Recipients**

The criteria for selecting applicants for financial aid varies depending upon the program. Federal Pell Grants will be considered first for all undergraduate students applying for federal aid at Vincennes University. Students are automatically considered for all financial aid programs on a priority deadline basis, and the Financial Aid Office uses the FAFSA in selecting applicants for various programs. The office awards respectively from grants, scholarships, college work study and the Federal Family Education Loan Program. Federal Nursing Student Loan recipients are selected based upon evaluated financial need, availability of funds and upon the applicant's enrollment in Associate Degree Nursing at Vincennes University.

### **Students Responsibilities**

Students receiving financial aid have certain responsibilities under the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal College Work Study Program, Federal Family Education Loan Program (Perkins, Stafford, and Plus Loans), and other aid programs. The applicant must, without exception, report any of the following changes to the Financial Aid Office: (1) withdrawal from school; (2) transfer to another school; (3) dropping below half-time status; (4) name change; (5) address change or parents' address change; (6) joining military service, Peace Corps, or VISTA.

If student loans have been received, an exit interview must be arranged with the Financial Aid Office and the Accounts Payable Office before graduating or withdrawing from Vincennes University. Failure on the aid recipient's part to make some satisfactory arrangements for the settlement of a campus account by the due date may result in one of the following official actions: (1) a hold placed on the student's records; (2) refusal of future financial awards.

The financial aid applicant is responsible for obtaining, completing, and filing each year the proper financial aid application, statements, forms, etc. on a timely basis. The applicant has the right to seek and receive full information and counsel from the Financial Aid Office in regard to any financial matter. If the family's financial circumstances change due to death, divorce, marriage, disability, or long-term unemployment, the applicant may become eligible for more assistance. The applicant must take the initiative in notifying the office of these changes in writing.

Applicants must provide correct information. Knowingly and intentionally misreporting information on financial aid application forms is a criminal offense which could result in indictment under the U. S. Criminal Code.

An applicant for financial aid must return all additional documentation, verification, corrections, and/or new information requested by either the Financial Aid Office or the agency to which you submitted your application or financial statement.

Applicants are responsible for reading and understanding all forms that they are asked to sign and to keep copies of them.

Applicants must accept responsibility for agreements that they sign.

When accepting a Federal College Work Study award, recipients must perform the work that is agreed upon.

Students are also responsible for understanding the school's refund procedures and policies.

## Refunds

A student who completes official withdrawal or is dismissed may receive a refund of registration fees in accordance with the refund policy as found in the "Tuition, Fees and General Expenses" section of this catalog. The Bursar's Office is responsible for refunds.

Students withdrawing before the end of the semester who receive financial aid may have a portion of the university refunds returned directly to the applicable program account. In some cases, students who withdraw during the refund period and who receive financial aid funds will be required to return a portion of the award to the appropriate fund since the semester was not completed.

## Costs

Student estimated expense budgets are derived from directly related educational expenses, such as registration fees, room and board, books and supplies, personal and transportation expenses. Budgets are constructed based upon the status of each applicant such as single, married, dependent, independent, etc. Complete student budget data is available from the Financial Aid Office at Vincennes University.

## Method of Application

Completing the FAFSA will allow students to apply for all types of assistance. If the CPS Processing Center receives the FAFSA by March 10, Indiana students will also be applying for aid through the State Student Assistance Commission of Indiana. Prior to consideration for aid, Vincennes University requires that a student file an application for admission. The FAFSA is considered to be the official application for financial assistance.

## Grants

Most grants are awarded on the basis of financial need as determined by the U.S. Department of Education and do not require repayment upon completion of a certificate or degree. The maximum award varies with each grant, usually depending on the availability of funds.

**Federal Pell Grants** are awarded by the U.S. Department of Education according to its guidelines. The University processes the award notification, called the Financial Aid Notification, and applies the award to the student's account. Qualified undergraduate students who are enrolled in one or more credit hours are eligible to receive Federal Pell Grants. However, if you are a part-time student, you will receive a reduced amount.

If you change universities during the academic year, your Federal Pell Grant may be used at the new school or campus. If you drop any classes, your Federal Pell Grant may be reduced in amount.

**Federal Supplemental Educational Opportunity Grants (SEOG)** are for students who have an expected family contribution (EFC) of zero and need.

**Federal Academic Competitiveness Grants** are for students who complete a rigorous high school program and maintain a high level of achievement in college.

**SSACI Grants (Indiana Higher Education Grant)** awarded by the State Student Assistance Commission of Indiana are awarded to Indiana residents who have demonstrated financial need. You must carry at least twelve credit hours. The grant may be used for a total of eight semesters at a college in the state of Indiana.

State Student Assistance Commission of Indiana Educational Grant must be renewed by reapplying directly to the Commission through use of the FAFSA.

## Federal Work Study Program

The Federal College Work Study program is a federally funded financial aid program which is designed to award students employment, the earnings from which must be applied toward educational expenses.

Eligibility for the program is determined by the Financial Aid Office. Placement and employment in the job opportunities are handled by that office also. Total wages that can be earned by the student may not exceed the Work Study award.

Students who have been awarded funds through the Federal College Work Study Program should contact the Financial Aid Office, Vincennes Campus, at 812-888-4361 after classes begin to apply for available Work Study employment.

**Federal Community Service Work Study Program.** The community services component of the Federal Work Study Program was authorized by the Higher Education Technical Amendments of 1995 for the community service oriented student. The purpose of the community service work study is to encourage the Federal Work Study recipient to participate in community service activities. If you are a recipient of a Federal Work Study Award, and desire to participate in a community service work study program, please contact the Financial Aid Office, Vincennes Campus, for further details.

### **Federal Perkins Loan**

This low interest (five percent) loan is made directly to needy students by the college or school that has received federal money for this purpose. If you qualify, you may borrow up to a maximum of \$8,000 for the first two years.

### **Federal Stafford Loans**

*An entrance/exit counseling session is required for all first-time loan recipients.* Loans awarded by the Financial Aid Office must be repaid at a specified time in the future. What makes these loans attractive to the student are their easy repayment terms. While you are in school, no payments have to be made on Federal Perkins and the Federal Subsidized Stafford Loan. Upon leaving school, you generally have a grace period before you have to start repayment. In addition, interest rates are lower than standard bank rates; they range from five percent to eight percent.

This loan is available to the student that qualifies based on the level of need as determined by completing the FAFSA. A private lender such as a credit union or bank makes this loan directly to the student. A student can borrow up to \$3,500 in federal subsidized and unsubsidized Stafford loans for the first year depending on need. A student can borrow up to an additional \$2,000 in a federal unsubsidized Stafford loan depending on need. No interest accrues on the subsidized loan as long as the student is enrolled in at least half-time status. Interest accrues upon disbursement of the unsubsidized loan.

The Higher Education Act--Federal Regulation S-428G(b)(1)-- requires that Vincennes University, as well as all colleges and universities throughout the nation, not deliver the first installment of a Federal Stafford loan to any student who is entering the first year of a program of undergraduate education at an institution and who has not previously received a Stafford loan until *30 days* after the first day of the student's program of study.

### **Federal Nursing Student Loans**

These loans are available to students admitted to the Bachelor or Associate Degree Nursing Program. The student must demonstrate need. Maximum loans are \$2,500 per year with the interest rate of six percent. Repayment will begin six months after you graduate or drop below half-time status. A portion of the loan may be forgiven if you are employed in certain fields of nursing.

### **Benefits**

Benefits are funds some people are entitled to under special conditions. Like grants, benefits do not have to be repaid.

**GI Bill Benefits:** If you were honorably discharged from the Armed Forces, education benefits may be available upon application to the Veterans' Administration.

**Child of Disabled Veteran Grants:** The Indiana General Assembly legislated this grant program for children of service men and other public officers who were disabled or are deceased by a war- or public service-related cause. To be eligible, you must have on file with the Financial Aid Office an approved Remission of Fees form from the Veterans' Administration regarding your parent's disability prior to receiving the benefit. Payment of benefits begins with the semester that the Financial Aid Office receives the approved Remission of Fees Form and is not retroactive to prior semesters of attendance. Eligibility lasts for 124 credit hours.

## Scholarships

**SSACI Scholarships** (State Student Assistance Commission of Indiana) are awarded to Indiana residents who meet certain academic standards. You must carry at least twelve credit hours to be eligible. To become eligible for a scholarship, your high school counselor must make the recommendation during your senior year in high school.

**Performing Scholarships and Athletic Grants** (Vincennes Campus) are awarded (contingent on annual funding levels) in varying amounts to Vincennes campus students with talent in areas such as music, drama, athletics, cheerleading, and other areas. Additional information about the following athletic grants and scholarships is available from the appropriate coach.

Baseball Scholarships	Tennis Scholarships
Basketball Scholarships	Track and Cross Country Grants
Bowling Grants	Volleyball Grants

Additional information about the following performing scholarships and grants is available from the appropriate department chairperson or activity sponsor.

Blazerette Scholarships	Music Scholarships
Cheerleader Scholarships	Theatre Grants
Art Scholarships	

**Non-Performing Scholarships and Grants** (Vincennes Campus) are awarded in varying amounts both from organizations outside the university community and from various university organizations. Eligibility may be determined by county of residence or by the students' choice of major. Additional information and scholarship applications are available from the Admissions Office.

Academic Scholarships	Broadcasting Department Scholarship
Woodrow Allen Scholarship	Curt Brown Memorial Journalism Scholarship
Alpha Chapter Barbara DeBoer Scholarship	Brunswick Scholarship
John Alsobrooks Memorial Scholarship	Elizabeth R. Bryant Scholarship
Children of Alumni Scholarship	John R. Burt Scholarship
American Business Women's Association Scholarships	Lilbert O. Campbell Memorial Pre-Medicine Scholarship
Peggy Archer Memorial Surveying Scholarship	Carroll-Gordon Scholarship (Doug Carroll Journalism Grant)
Architectural Academics Award	Congresswoman Julia Carson Scholarship
M.S. Badollet Memorial Student Loan Fund	Miss B. Cornelia Carter Scholarship
Charles and Ruth Ballard Scholarship (sponsored by Sigma Phi Epsilon Alumni Association)	Caterpillar Dealers Scholarship
Isaac K. Beckes Alumni Scholarship	Dr. Herbert Chattin Memorial Nursing Scholarship
Hilda Begeman Memorial Mathematics Scholarship	C.W. Chu Scholarship
Robert H. & Marjorie K. Begeman Engineering Scholarship	C.W. Chu Endowment
Don G. Bell Scholarship	Construction Technology Scholarship Endowment
Berry Plastics Printing Scholarship	Helen and Melvin Cook Nursing Scholarship
Brent C. Bierhaus Memorial Scholarship	Cornelius Scholarship
E. Bierhaus and Son Foundation Scholarship	State Representative William Crawford Scholarship
Bi-State Authority Scholarship-Aviation Flight	Dennis and Linda Cripe Journalism Scholarship
Britt Aviation Maintenance Fund-Indianapolis Campus	Cummins Engine Industrial Drafting Scholarship
Britt Tool Inc. Scholarship	

D.B.A. Products Scholarship in Memory of John Picchetti, Sr.  
 Daviess County IN Alumni Scholarship Fund  
 Caroll Deem Memorial Scholarship  
 John Deere Partnership Scholarship  
 Gene B. Dinkins Broadcasting Scholarship  
 Daniel and Christine Dittman Scholarship Endowment  
 Duke Energy Mining Technology Scholarship  
 Oscar L. Dunn Memorial Scholarship  
 Dunseth Aviation Scholarship  
 Dunseth Special Fund Scholarship  
 Steve "Tank" Ellerman Scholarship Fund  
 Joan Elizabeth Emery Music Scholarship  
 Richard Ertel and Ertel Family Scholarship  
 First American Bank Scholarship  
 Thomas Fitzgerald Memorial English Scholarship  
 Fortnightly Club Art Scholarship  
 Dr. C. Phillip Fox Scholarship  
 Alfred R. and Helen M. Friesenhengst Scholarship  
 William G. Galligan Memorial Scholarship  
 Atto Gardner Nursing Scholarship  
 Charles Gardner Memorial Scholarship  
 Patrick Gehl Memorial Scholarship  
 Barbara Loheider Gerhart Scholarship  
 Mary Alice Gerhart Nursing Scholarship  
 Max W. Gerhart Memorial Flight Scholarship  
 George Gettinger Scholarship  
 Alta Jane Gosnell Scholarship  
 Grabbe-Utley Scholarship  
 Steve Graham Scholarship  
 Carl and Eulala Gray Music Fund  
 Greene County Golf Outing Scholarship  
 Marva Green Scholarship Endowment  
 Robert E. Green Memorial Scholarship  
 GSH Foundation Nursing and Allied Health Care Scholarship  
 HMC Company Scholarship  
 Gene Haas Foundation Scholarship  
 Donald W. Hamilton Scholarship  
 Carroll and Sunya Hamner Scholarship  
 Hankins Student Assistance Fund Scholarship  
 Phil Harris Scholarship  
 Martha Hart Scholarship (sponsored by Lambda Chi Alpha)  
 Randall Hedden Arts Scholarship  
 Dean J. and E. Hill Academic Scholarship  
 Henry Hinkle Scholarship  
 Richard N. Howard Scholarship  
 Hong Kong Alumni Fund  
 Joyce Hudgins Memorial Scholarship  
 Marjorie W. Huffman Scholarship  
 Patty Hundson Memorial Music Scholarship  
 Indiana Builders Charitable Foundation Scholarship  
 Indiana Lumber and Builders Supply Association  
 Industrial Drafting Scholarship  
 Instrument Society of America Scholarship  
 Jasper Engines/Transmissions Scholarship Endowment  
 Jasper German-American Bank Scholarship  
 Jasper Old National Bank Scholarship  
 James L. Jernigan Memorial Flight Scholarship  
 Ben Johnson Memorial Scholarship  
 KCARC Scholarship  
 Dr. Rev. Martin Luther King, Jr. Scholarship  
 Matthew Kirkman Fire Science Scholarship Endowment  
 Frank and Julia Ladner Scholarship  
 Richard S. Lawless DDS Memorial Scholarship  
 Jay Linn Memorial Scholarship  
 Amy Loomis Music Scholarship  
 Richard and Helen Lux Scholarship Endowment  
 John M. Lyons Scholarship  
 William E. Lyons Scholarship  
 Machine Trades Third Year Option Scholarship  
 Ellis Madding Scholarship  
 Eph and Dorothy Marchino Memorial Scholarship  
 Ernie Marlow Basketball Scholarship  
 Clarence J. and Emma McCormick Scholarship  
 Doug McCormick Memorial Scholarship  
 Laura McCormick Memorial Nursing Scholarship  
 Mac McCormick Scholarship Endowment  
 Lisa McCracken Memorial Scholarship  
 Forrest McGlone Scholarship  
 McKinley Avenue Presbyterian Church Foundation Scholarship  
 Marie Lucier McQuaid Scholarship  
 David G. Meinhart Memorial Journalism Scholarship  
 Miss VU Scholarship  
 Wanda Morehead Trust Scholarship Endowment  
 Phillip Morris Memorial Scholarship  
 Rex Moyer Memorial Scholarship  
 Mozart Amateur Music Scholarship  
 Ben Nathan Scholarship  
 Alice Thelma Neal Scholarship Endowment

Robert J. Nichols MD Scholarship  
 Niehaus Family Scholarship  
 .918 Printing Technology Scholarship  
 Noble County Scholarship  
 Non-Traditional Student Scholarship  
 Erica Norman Memorial Scholarship  
 Northwest Territory Art Guild Scholarship  
 Old National Bank Business Scholarship  
 Rachael E. Osborne Special Education  
 Scholarship  
 Jeanette Olsen Memorial Scholarship  
 Overton and Sons Tool & Die Co.  
 Scholarship  
 Patterson Memorial Scholarship in Memory  
 of Mr. and Mrs. George M. Patterson  
 Gregory L. Pittman Law Enforcement  
 Scholarship  
 Polk-Decker Memorial Scholarship  
 Robert and Elaine Pott Foundation  
 Engineering Scholarship Endowment  
 Psi Iota Xi American Sign Language  
 Printing Industry of Indiana Association  
 Scholarship  
 Dr. Razi Memorial Scholarship  
 Meredith Reed Scholarships  
 Regions Bank Associates Children  
 Scholarship Endowment  
 Reitmeyer Aviation Scholarship  
 George S. Ridgway Architectural  
 Scholarship  
 George S. Ridgway Architectural  
 Endowment  
 George S. Ridgway Surveying Scholarship  
 George S. Ridgway Surveying Endowment  
 David J. Rosenburg Memorial Scholarship  
 Lester W. Routt Memorial Scholarship in  
 Chemistry  
 Samonial National Anthem Scholarship  
 Noble P. Sartor Educational Fund in  
 Banking  
 Science and Math Scholarship  
 Shirecliff Memorial Business Scholarship in  
 Memory of Charles Shirecliff  
 Elson G. Sims Memorial Scholarship  
 Marjorie Sims Memorial Scholarship in  
 Respiratory Therapy  
 James Skinner Aviation Scholarship  
 C. B. Smith Hotel/Restaurant Management  
 Scholarship  
 David Sommers Memorial Scholarship  
 Southgate Community Scholarship  
 South Knox High School Scholarship  
 Dorothy J. Spence Memorial Scholarship  
 State Police Career Camp Grants  
 STEP Program Scholarship  
 Support Staff Scholarship  
 Friends of Surveying Technology  
 Edna Tague Scholarship Endowment  
 George R. Tolson Memorial Scholarship  
 Toyota Motor Manufacturing, Ind. Industrial  
 Maintenance Scholarship  
 Toyota Motor Manufacturing, Ind.  
 Leadership Scholarship  
 Tri-Aerospace LLC Scholarship  
 Tammy Tribe Memorial Scholarship  
 Penny Hill Trimble Memorial Scholarship  
 Edward O. Trull Memorial Journalism  
 Scholarship  
 Linda Tucker Vocal Music Scholarship  
 Helen VanWey Scholarship  
 Vincennes University Campus Ministries  
 Vincennes University Foundation  
 Scholarship  
 Vincennes University Student Union Board  
 Scholarships  
 Wabash Food Service Scholarship  
 Dyal and Violet Wadsworth Scholarship  
 Janet L. Waggoner and Richard L. Yowell  
 Scholarship  
 Fred Walker Jr. Journalism Scholarship  
 (Washington, Indiana, Monday Afternoon  
 Club)  
 Dorothy M. Walters Education Scholarship  
 Harry S. Warner Scholarship  
 Watts Flight Scholarship in Memory of  
 Harry T. Watts  
 Dr. Norbert Welch Memorial Scholarship  
 Governor Matthew E. Welsh Memorial  
 Scholarship  
 Whitehouse Automotive Technology  
 Scholarship  
 Dale and Dorothy J. Wilkes Memorial  
 Scholarship  
 Jean Marie Wilkes Memorial Nursing  
 Scholarship  
 Brian D. Williams Memorial Biomedical  
 Scholarship  
 Helen and Hugh Williams History/Political  
 Science Scholarship  
 Katie Winslow Memorial Scholarship  
 Gordon, Arthur, and Iva Wiseman  
 Scholarship  
 WTHI Broadcasting Scholarship  
 WTWO Broadcasting Scholarship  
 Edwin York Scholarship  
 George S. Youst Memorial Scholarship  
 Kathryn Louise Zimmerman Memorial  
 Scholarship

**Jasper Campus Scholarships:** The following scholarships are available exclusively at the VU Jasper Campus:

Scott Bleemel Memorial Law Enforcement Scholarship  
Raphael Blessinger Lion's Club Scholarships  
Julius C. Buettner Memorial Scholarship  
Sr. Mary Walter Goebel Memorial Scholarship  
Mauri Gutgsell Memorial Scholarship  
Arnold F. Habig Scholarship  
Mabel L. Kuebler Memorial Scholarship  
Rumbach Journalism Scholarship

Henrietta (Sis) Ruxer Nursing Scholarship  
Hilda Ruxer Memorial Nursing Scholarship  
Robert and Vivian Seng Memorial Scholarship  
Sisters of St. Benedict of Ferdinand Scholarship  
Cheryl Harder Stiles Memorial Scholarship  
VUJC Academic Scholarships  
VUJC Alumni Scholarship  
VUJC Foundation Scholarships  
WBDC Dubois County Scholarship

### **Satisfactory Academic Progress**

Vincennes University is required under Title IV of the Higher Education Act to define and administer standards of satisfactory academic progress for students receiving federal financial aid. Recipients must maintain sufficient progress to assure successful completion of their educational objectives as measured by qualitative and quantitative standards.

**Qualitative and Quantitative Measures.** Non-developmental courses assigned a letter grade of A, A-, B+, B, B-, C+, C, D, WF, WN, or F contribute to the grade point average (GPA) that determines the qualitative measure. All courses assigned a letter grade of A, A-, B+, B, B-, C+, C, D, F, I, DE, RD, P, CR, W, WF, or WN count in the quantitative measure, as do transfer credits accepted toward degree programs and any repeated courses. Attempted credit hours are those hours in which students are enrolled at the end of the first week of each semester (add/drop week). Quality hours are credit hours associated with non-developmental courses.

After attempting 12 credit hours, students must earn a cumulative GPA of at least 1.8 and complete at least 60% of their cumulative attempted credit hours with passing grades.

After earning 30 quality hours, students must earn a cumulative GPA of at least 1.9 and complete at least 60% of their cumulative attempted credit hours with passing grades.

After earning 45 quality hours, students must earn a cumulative GPA of at least 2.0 and complete at least 60% of their cumulative attempted credit hours with passing grades.

Students who do not meet these conditions will be placed on financial aid probation.

**Financial Aid Probation.** While students are on financial aid probation, they must finish with a semester GPA of at least 2.0, and if probation is due to a low completion rate, they must complete 100% of all courses attempted. If they do not achieve this standard at the completion of their next semester of enrollment, they will be placed on financial aid suspension.

Students who receive any grades of W, WN, WF, I, or RD do not finish 100% of courses attempted. Courses attempted are those courses in which students are enrolled after the first week of classes (add/drop week).

Students will receive a letter clearly stating these requirements, and they must sign and submit an acknowledgement that they understand their status and what they must do to avoid suspension of their financial aid. While they are on probation, they will receive the financial aid for which they are eligible. Thus, there is no appeal of probationary status.

Students will be removed from probation after they achieve at least the 60% completion rate and at least the minimum GPA relevant to the number of hours they have earned.

**Financial Aid Suspension.** Students who, while on financial aid probation, do not finish with a semester GPA of at least 2.0 or do not complete 100% of all courses attempted if probation is due to completion rate will have their financial aid suspended. Since this means they will not receive the financial aid for which they would otherwise be eligible, they may appeal their suspension. If their appeal is granted, they will receive the financial aid for which they are eligible, but they will remain on financial aid probation.

If a grade of I or RD during a semester of probation is the only reason students have been placed on financial aid suspension, after they submit proof that they have completed the course



with a grade other than F, W, WN, or WF, their financial aid will be reinstated as long as the changed grade enables them to meet the minimum semester GPA of 2.0.

To appeal financial aid suspension, students must be able to cite and document significant extenuating circumstances that prevented them from meeting the minimum semester requirements. Significant extenuating circumstances include but are not limited to extended illness, a death in the family, or some other serious personal or familial situation. Examples of acceptable documentation include death certificates, diagnostic statements from physicians, and written statements from a non-relative third party familiar with the situation. Appeals will not be granted unless significant extenuating circumstances can be documented.

**Maximum Time Frame.** U.S. Department of Education rules allow colleges and universities to provide federal financial aid for a maximum of up to 150% of the credits needed to complete an academic program. For example, students working toward a degree that requires 64 credits, may receive federal financial aid for attempting up to 96 credits (64+32), and students working toward a certificate of completion that requires 30 credits may receive federal financial aid for attempting up to 45 credits (30+15). Once students have surpassed these limits at the completion of a semester or summer term, they will be on financial aid suspension and will no longer be allowed to receive federal financial aid.

Notice that we must count credits attempted and not just credits successfully earned. We must count the credits for courses in which students receive a grade of F, W, WF, WN, DE, RD, or I. We must also count the credits for all courses attempted at Vincennes University whether the courses meet degree requirements or not.

There are some exceptions that might make it possible for Vincennes University to provide federal financial aid for additional credits.

- The university may exclude up to 30 credits of developmental courses attempted.
- The university may exclude transfer credits that do not meet any requirements for the degree or certificate toward which a student is working at Vincennes University.
- For students who have already earned one degree or certificate from Vincennes University and are working on a second degree or certificate, credits that are unique to the first degree or certificate earned may be excluded. Purely elective courses are not unique to the first degree or certificate earned and will be counted toward the 150% maximum.
- Credits attempted or earned longer than five years ago from the time of appeal that do not count toward the current degree or program may be excluded.

Since significant extenuating circumstances may contribute to a student's failure to complete a degree or certificate program within the 150% maximum time frame, we will accept appeals of suspension of federal financial aid. To appeal financial aid suspension, students must be able to cite and document significant extenuating circumstances that prevented them from meeting the maximum time frame requirements. Significant extenuating circumstances include but are not limited to extended illness, a death in the family, or some other serious personal or familial situation. Examples of acceptable documentation include death certificates, birth certificates, diagnostic statements from physicians, and written statements from a non-relative third party familiar with the situation. Appeals will not be granted unless significant extenuating circumstances can be documented.

**Developmental Courses.** Students may receive financial aid for up to 30 credits of developmental courses. The first 30 credit hours are excluded in determining the maximum time frame. Developmental courses are counted toward the first 12 attempted credit hours that require at least the 60% completion rate with passing grades as described above under "Qualitative and Quantitative Measures." All remedial course credits after the 30 credit hours will be included in the quantitative measure and the maximum time frame.

### **Appeals Procedure**

Upon receipt of the suspension notice of future financial aid at Vincennes University, the student has the right of appeal.

The formal appeal process is initiated by the student submitting a written letter of appeal to the Financial Aid Office. Letters written by a parent, relative or guardian may not be accepted as the appeal letter, but will be considered along with the formal letter of appeal submitted by the student.

The letter of appeal received by the Financial Aid Office will be heard by the Appeals Committee.

After the formal appeal review, the student will be notified of the Committee's decision. If the Committee rules in the student's favor, then the student must fulfill all of the Committee's specifications in accordance with the approval. If the student fails to comply, financial aid will be suspended for the next semester of attendance, and the deficiencies must be reconciled before aid eligibility will be reinstated. The decision of the Appeals Committee is final.

The Vincennes University Satisfactory Academic Progress policy is enacted and enforced according to the guidelines set forth by the U.S. Department of Education. The Financial Aid Office functions in strict accordance with these guidelines.

Please note: The Satisfactory Academic Progress policy is subject to change at any time. For information on the current policy, please contact the Financial Aid Office, Vincennes University, 1002 North First Street, Vincennes, IN 47591. Toll Free Number: 1-800-742-9198

### **Withdrawal from Classes**

Since your acceptance of the financial aid package indicates your agreement to meet the minimum credit hour requirements for your awards, withdrawing from one or more classes may jeopardize your aid. In other words, if you drop below the minimum number of hours or you drop out completely, you may be required to repay the University some or all of the aid you received. For example, if you received a Federal Pell Grant based on full-time enrollment and you drop to eleven hours or to five hours, you may have to refund some of the grant to the University or the Department of Education. Also, remember that you must make academic progress to maintain your eligibility for future aid. Before withdrawing from or dropping classes, it would be wise to check with the Financial Aid Office.

### **Student/Parent Consumer Information**

All enrolled and prospective students will be provided the following information in accordance with Federal Requirements:

- Rights under Family Education Rights and Privacy Act (FERPA);
- FFEL/Direct Loan deferments for Peace Corps or volunteer service;
- Vincennes University available financial aid assistance;
- Vincennes University institutional information;
- Completion/graduation rate and transfer-out rate;
- Campus Security Report;
- Report on athletic program participation rates and financial support data; and
- Policy on Return of Title IV funds.

### **Priority Deadline**

To qualify for State of Indiana grants and scholarships, the Free Application for Federal Student Aid (FAFSA) must be received by the CPS Processing Center by March 10.

For more information contact the Financial Aid Office, Vincennes University, 1002 North First, Vincennes, IN 47591. Toll Free Number: 1-800-742-9198.



# Tuition, Fees, and General Expenses

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## **IMPORTANT NOTE**

The following charges are made for tuition and fees *each semester*. ***The following fees are given as a guideline and are subject to change for the 2009-10 academic year upon action of the Board of Trustees:***

### **Supplementary Support and Academic Facilities Fees**

Residents of Indiana, cost per credit hour .....	Levels 009-299 \$ 127.68
	Levels 300-499 \$ 148.39

### **Tuition and Academic Facilities Fees**

Residents of Crawford, Richland, Lawrence, and Wabash Counties of Illinois, cost per credit hour .....	Levels 009-299 \$ 203.08
	Levels 300-499 \$ 236.10
Non-residents of Indiana and Residents in all counties in Illinois except Crawford, Richland, Lawrence, and Wabash Counties, cost per credit hour.....	Levels 009-299 \$ 318.64
	Levels 300-499 \$ 370.44

**Technology Fee, cost per credit hour** .....2.66

**Capital Improvement Fee, cost per credit hour** .....3.30

### **Residence Hall Room and Board (per semester)<sup>1</sup>**

#### ***Harrison, Vigo, Morris, and Godare Halls***

10 meals per week .....	3,412.00
14 meals per week .....	3,464.00
19 meals per week .....	3,517.00
19 meals per week for one Summer Session (5 weeks) .....	1,130.00
19 meals per week for both Summer Sessions (10 weeks).....	2,260.00
Intersession (3 weeks – no meals) .....	474.00

#### ***Vanderburgh Hall***

10 meals per week .....	3,601.00
14 meals per week .....	3,653.00
19 meals per week .....	3,706.00

<sup>1</sup> In addition, there is a Blazer Bucks Program available to all V.U. students. Students should refer to the Student Handbook for an explanation of this program.

**Clark Hall**

10 meals per week (2 bedroom, 4 student, 2 private bath) .....	3,791.00
10 meals per week (4 bedroom, 4 student, 2 private bath) .....	4,386.00
10 meals per week (private room with bath) .....	4,576.00
14 meals per week (2 bedroom, 4 student, 2 private bath) .....	3,843.00
14 meals per week (4 bedroom, 4 student, 2 private bath) .....	4,438.00
14 meals per week (private room with bath) .....	4,628.00
19 meals per week (2 bedroom, 4 student, 2 private bath) .....	3,896.00
19 meals per week (4 bedroom, 4 student, 2 private bath) .....	4,491.00
19 meals per week (private room with bath) .....	4,681.00
<b>Residence Hall Deposit Fee</b> (Refundable damage deposit) .....	150.00
<b>Private Room in Residence Hall</b> (per semester) .....	832.00
<b>Residence Hall Contract Cancellation Fee</b> .....	750.00
<b>Malpractice Insurance Fee</b> (For Health Occupations Majors) .....	15.00
<b>Matriculation Fee</b> (not refundable) .....	20.00
<b>Flight Fees</b> .....	90.00 to 7,700.00
<b>Applied Music Fees</b> (Piano, organ, instrumental, and voice) .....	146.00-291.00
<b>All other special course fees</b> .....	7.00 to 1,171.00
<b>Student Activity Fee</b> (charged all students taking more than four hours) .....	97.00
<b>Off-Campus Meal Tickets</b> (purchased at Tecumseh Dining Center)	
5 meals per week/total of 20 meals; valid for 28 days from purchase date .....	119.00
10 meals per week/total of 40 meals; valid for 28 days from purchase date .....	222.00
15 meals per week/total of 60 meals; valid for 28 days from purchase date .....	243.00
19 meals per week; valid for entire 5-week summer session .....	294.00

*Students may use VISA, Master Card, or Discover Card to pay for all fees billed by the Bursar's Office and for bookstore purchases. Students may also pay on-line through the MyVU account or [Blazeronecard.com](http://Blazeronecard.com).*

The Bursar's Office is open for business from 8:00 a.m. to 5:00 p.m. Monday through Friday.

**Billing Addresses.** All billing statements are mailed to the permanent address on file for students. If bills are to be mailed to a different address other than the permanent address, students with sufficient cause may make this request at the Bursar's Office. Students are responsible for informing the Registrar's Office of permanent address changes. Bills will not be mailed to the residence halls.

**Check Cashing Policy.** Students are allowed to write personal checks at the bookstore for cash (up to a \$100 daily limit). There is a \$.20 charge and a valid student ID is required. Two-party checks between students are strictly prohibited from being cashed. Checks written from parents or other relatives to a student must adhere to the \$100 daily limit and the student will be asked to substantiate that it is from a relative (i.e., same surname and/or permanent address as student).

**Returned Checks.** All checks returned to the University will be assessed a handling charge of \$25 per check. The handling charge may be waived if the Bursar's Office receives written notice from the financial institution returning the check that they did so in error or the student remits payment in cash, cashier check, or money order prior to the check being returned. NSF checks are automatically redeposited a second time.

A student will temporarily lose their check cashing privileges if the University is holding an unpaid returned check. A student will permanently lose their check cashing privileges if the University has three or more checks returned on the student's account. Payment for an unpaid returned check must be in the form of cash, cashier's check or money order.

**Financial Encumbrance.** Students who have a financial obligation to the University at the end of a semester will not receive their official transcripts until the obligation has been paid in full. Students who have past-due accounts at time of advance registration for future terms may not be eligible to register until their account is current or paid in full whichever applies for that time period. Students registering at mid-term for eight-week classes beginning after midterm will be required to pay for the added hours at the time of registration.

**Special Course Fees.** Additional fees for specific classes are assessed to cover cost for equipment or individualized instruction. The cost for each class that has a special course fee is noted in the class schedule for the term. Students enrolled for classes that have lab fees and subsequently withdraw from school or drop the specific classes do not have their account adjusted according to the refund policy. Accounts are adjusted when the Bursar's Office receives written notification of adjustment from the specific department or division responsible. Flight time is pro-rated accordingly.

**Off-Campus Meal Tickets.** During the Fall and Spring semesters student may purchase a meal ticket at Tecumseh Dining Center. The meal ticket is good for 28 days from date of purchase. During the Summer Sessions, meal ticket purchases are for an entire five-week session and only the 19-meal plan is offered. Cost will be pro-rated if term will end prior to normal length of meal ticket plan.

**Parking Permits and Fines.** Students parking on campus must have their vehicles registered with the Vincennes University Campus Police Department. Refer to the Vincennes University Handbook for cost of stickers, fines and parking regulations.

**Purchase of Books and Supplies.** Books and supplies are to be paid for at the time of purchase at the bookstore or charged against a student's credit balance.

## **RESIDENCY STATUS REGULATIONS for Assessment of Tuition**

**General.** Vincennes University is a public institution supported by funding from state of Indiana tax revenue. As a state tax-supported institution, the University extends preference in tuition charges to residents of the state of Indiana whose circumstances conform to the University's definition of resident status stated below.

Principal elements which determine residency are domicile in Indiana and actions which indicate the intent to make Indiana the permanent residence. A person has but one domicile at any time. Mere physical presence in Indiana, regardless of how prolonged, is insufficient to establish residency without action and intention to make the place a permanent residence and principal home. To establish residency in Indiana under this policy, a person must demonstrate presence and intent to reside permanently in Indiana for reasons *other than education objectives*.

The burden of establishing that a person is domiciled in Indiana for other than educational purposes is upon the person. The regulations, factors, and procedures outlined in this policy will be considered by the University in determining residency status.

Residency Status Regulations are subject to change at the discretion of the Vincennes University Board of Trustees. A person holding nonresident status is subject to rules in effect when the petition seeking Indiana residency is filed. No thing in these rules shall be retroactive to reverse in-state residency status previously granted under former regulations.

Vincennes University's definition of the term "resident" may be different from other, non-University agencies. Accordingly, a person who is an Indiana resident for tax or voting purposes, for example, is not necessarily a resident for tuition purposes.

**Regulations.** The following regulations are used to determine the resident status for tuition assessment purposes.

1. A person's domicile is presumed to be that of the parent(s) or legal guardian unless the person is independent and establishes a separate domicile. For the purposes of these Regulations, legal guardian and parent are interchangeable.
2. A person who is dependent upon his/her parent(s) or other person in authority, other than spouse, for financial support shall not be considered independent for the purpose of these regulations. A person claiming independence may be requested to present satisfactory evidence that his/her parent(s) has not contributed significantly to his/her support nor claimed him/her as a dependent on federal or state income taxes during the period in which the person attempts to establish and/or maintain residency. Filing and payment of Indiana income tax is necessary to establish residency.
3. In order to be classified as a resident for tuition purposes, an independent person shall be domiciled in Indiana and a bona fide resident for at least six months immediately preceding the first scheduled day of classes for the term for which residency is sought.
4. During the six-month period in which a person attempts to establish residency, a person must be financially independent. He/she must rely upon gainful employment in Indiana or prove reliance upon resources in Indiana for more than fifty percent of the income sufficient to provide for tuition, fees, and normal living expenses, e.g., food, clothing, housing, and transportation. Income earned as a result of University enrollment, such as educational loans or student employment, is not considered evidence of intent to establish residency.
5. A person who is not a citizen of the United States of America may establish resident status unless the person holds a visa which precludes an intent to permanently reside in the United States. Further information about visa classifications may be obtained from the International Student Advisor Office.
6. Non-citizens may commence establishment of residency with notification of permanent residency status by the United States Citizenship and Immigration Service provided the person meets and complies with all the applicable requirements of these Regulations.
7. The minor child of persons who, having resided in Indiana for at least six months immediately prior to such a transfer, are transferred by their employers to some location outside Indiana shall be considered an Indiana resident for purposes of tuition assessment. However, this Section shall apply only when the minor child of such parents enrolls in Vincennes University within one year from the time the parents are transferred to some location outside Indiana.

If a resident parent(s) establishes a domicile outside Indiana after a dependent is admitted, the dependent shall continue to be classified as a resident until degree completion, assuming timely matriculation, continuous enrollment, and maintenance of a separate residence in Indiana.
8. A person who claims Indiana domicile while living in another state or country must provide proof of continued Indiana domicile. Proof may include, but is not limited to, evidence that the person (or parent or legal guardian) has not acquired a domicile in another state, has maintained a continuous voting record in Indiana, and has filed and paid regular Indiana resident state income tax returns during the absence.
9. A person whose parent(s) moves to Indiana may become a resident at the beginning of the next term of enrollment following the move.
10. An independent person whose parent(s) has established and is maintaining a bona fide residence in Indiana will be regarded as a resident if the independent person lives in Indiana.

In the case of divorce or separated parents, if either parent is a bona fide resident of Indiana then the person shall be classified a resident.
11. A nonresident shall be classified as a resident if his/her spouse is a resident of Indiana and meets the applicable requirements of these regulations. A non-citizen may establish residency through his/her resident spouse, provided the non-citizen complies with Section 4 of these Regulations.
12. A person who is actively serving in the Armed Forces of the United States and who is stationed and/or present in the state in connection with that service, may be eligible for a waiver of the nonresident portion of tuition as long as the person remains stationed and/or present in

Indiana. The waiver is extended to the person's spouse and dependent children who also live in the state. A resident of Indiana, and the spouse and dependent children, who is stationed outside of Indiana in active service in the Armed Forces of the United States and who has maintained residency under Section 7 shall be classified as a resident.

**Factors in Determining Residency.** Bona fide residency must be maintained in Indiana for at least six months immediately preceding the first scheduled day of classes for the term for which resident classification is sought. The following circumstances, although not necessarily conclusive, have value in support of a claim for resident classification for tuition purposes.

1. Continuous physical presence--defined as no more than a three-week absence from the state of Indiana--for at least six months as described above.
2. Domicile in Indiana of parent(s), legal guardian, or spouse.
3. Voting or registration for voting in Indiana.
4. Indiana driver's license and automobile registration.
5. Financial independence and payment and filing of Indiana income tax during the tax year or partial tax year immediately preceding the term for which the person is requesting resident classification. Just the filing of Indiana State income taxes, filing without substantial Indiana income earned, will not be judged as a significant criterion for reclassification.
6. Six months of gainful employment in Indiana and prove reliance upon resources in Indiana for more than fifty percent of the income sufficient to provide for tuition, fees, and normal living expenses, e.g., food, clothing, housing, and transportation. Reliance upon income earned from loans and/or grants is not viewed as evidence of intent to establish residency. Employment must be in other than normal part-time student employment.
7. The lease of living quarters and payment of utility bills for six months immediately preceding the term for which the person is seeking residency.
8. Admission to a licensed profession in Indiana and the date of admission.
9. Domicile for six months in the state for other than educational purposes.
10. The State of residence claimed by the personal federal income taxes, and other documents requiring information as the person's State of residence.
11. Public records, such as birth, marriage records, etc.
12. Establishment of financial accounts at Indiana institutions.
13. Other official documents verifying legal, official connection with Indiana or with organizations of institutions within the state of Indiana.
14. Exclusive use of the Indiana address when home or mailing address is requested.

**Administration.** The Director of Admissions, or a designee, shall determine the initial residence classification of each person at the time the person enters or re-enters the University.

A person who is not satisfied with a determination concerning his/her residence classification may request the Director of Admission reconsider the determination.

The request should include the petition for change of residency status for tuition purposes at Vincennes University (available from the Office of Admissions) and all other materials which are applicable to the claim. The request and accompanying documentation will not be returned, and the person is advised to maintain a copy for his/her record.

If the person is still not satisfied with the determination after it has been reconsidered, the person may make a final appeal to the Residency Appeals Board which consists of the Dean of Students (who chairs the Board), and two other college officials, one of whom is appointed by the Assistant Provost for Student Affairs and another appointed by the Senior Director of External Relations. An appeal to the Residency Appeal Board must be in writing and turned in to the Dean of Students office along with the documentation supporting the person's claim. The decision of the Residency Appeals Board shall be final.

A person who fails to notify the University of a change of facts or provides false information which might affect classification or reclassification from resident to nonresident status and/or who provides false information or conceals information for the purpose of achieving resident status may be subject to appropriate disciplinary action, as well as other penalties which may be prescribed by law.



## INSTITUTIONAL REFUND POLICY

### Credit Adjustments for Withdrawal

**Official Withdrawal from Enrollment.** Students who participate in advance or late registration must notify the Dean of Students if they elect not to attend any classes prior to or during the term for which the student registered.

Students who officially withdraw during the first week of regular day classes during a semester will receive a 100 percent credit adjustment of tuition and student activity fees; during the second week, a 75 percent credit adjustment; during the third week, a 50 percent credit adjustment; and during the fourth week, a 25 percent credit adjustment. During the fifth week or after, *no credit adjustment will be given.*

*Please note:* A credit adjustment is based on the charges and not on the amount paid toward the student account if a person elects the payment plan. For example, a student's charge is \$900 for the semester that elects the payment plan, making their first payment \$330 (one-third of \$900 equals \$300 plus the \$30 payment plan fee). The student withdraws during the third week which is the 50 percent adjustment period. The credit adjustment of \$450 would leave a balance owed of \$150 (50 percent of \$900 equals \$450 minus the \$300 tuition payment equals the \$150 balance still owed). The payment plan is a convenience to the student to spread payments throughout the semester; it *does not* release the student's obligation to pay charges that have been incurred, in accordance with the University's stated refund policy, because they withdraw from school during the semester. The refund policy adjusts the charges and is not relevant to the amount of the partial payment the student pays when electing the payment plan.

**Dropping of Courses** (for Fall and Spring semesters). Students who drop one or more courses during the first week of regular day classes will receive a 100 percent credit adjustment of tuition and student activity fee; during the second week, a 75 percent credit adjustment; during the third week, a 50 percent credit adjustment; during the fourth week, a 25 percent credit adjustment; during the fifth week or after, *no credit adjustment.* The University refund policy will be pro-rated for those classes which meet less than normally prescribed for a regular enrollment period.

**Dropping of Courses** (for Summer Sessions - five weeks each). Students dropping courses or withdrawing from school the second day of regular classes will receive a 100 percent credit adjustment; the third or fourth day, a 75 percent credit adjustment; fifth or sixth day, a 50 percent credit adjustment; seventh or eighth day, a 25 percent credit adjustment; and no credit adjustment after the eighth day a class meets.

**Refunds.** Initial refunds for full-time students will be processed using [Blazeronecard.com](https://blazeronecard.com). Students must activate their Blazer One card to direct the refund preference. All refunds are processed through BlazerOne.

Students are encouraged to view their account information on My VU to determine when their refund will be available. Refunds are identified by the description of "BlazerOne card refund" with a corresponding effective date.

**Degree Completion Program Refund Policy.** Students who withdraw from degree Completion Program courses during the first 30 days after official enrollment are eligible to receive a 100 percent credit adjustment of tuition if no lessons have been completed during that period. If the student has completed less than 50 percent of the lessons, an administrative fee of 10 percent of the tuition for the course plus any amount(s) paid to faculty for evaluation of lessons may be charged. Refunds may not be made if enrollment exceeds 30 days and/or more than 50 percent of the lessons have been completed.

### Return of Title IV Funds

Under Re-authorization of 1998, rules were revised to govern the return of Title IV funds (Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Perkins Loans, Federal Stafford Loans, Federal Plus Loans and Federal Work Study) disbursed to a student who completely withdraws from a term. The new rules only impact federal aid received by a student. Vincennes University institutional refund policy will continue to remain in effect and will not be dictated by federal law or regulation.

**Earned and Unearned Aid.** The new rule assumes that a student earns his or her aid based on the period of time he or she remained enrolled. Unearned Title IV funds, other than Federal Work Study, will be returned to the Department of Education. Unearned aid is considered the amount of disbursed Title IV aid that exceeds the amount of Title IV aid earned under the new formula.

To determine how much aid was disbursed, a *snapshot* of the student account will be evaluated as soon as the institution becomes aware that a student withdrew. If earned aid exceeds disbursed, additional funds may be disbursed as a late disbursement to an eligible student. Institutional costs no longer play a role in determining the amount of Title IV funds to which a withdrawn student is entitled. During the first 60 percent of the period of enrollment a student *earns* Title IV funds in direct proportion to the length of time he or she remains enrolled. That is, the percentage of time during the period that the student remained enrolled is the percentage of disburseable aid for that period that the student earned. Aid is *disburseable* if the student could have received it at the point of withdrawal. Total disburseable aid includes aid that was disbursed and aid that could have been (but was not) disbursed as of the student's withdrawal date. A student who remains enrolled beyond the 60 percent point will earn all aid for the enrollment period.

**Determining the Percentage of Earned Aid.** In order to determine the percentage of aid that a student has earned, a student will take the number of days enrolled at the University and divide it by the number of calendar days in the period. A period at Vincennes University will be defined as a semester. It should be noted that any break in a semester that has a minimum of five calendar days will be excluded from the numerator and denominator in calculating the percentage of earned aid.

**Repayment of Unearned Aid.** The responsibility for repaying unearned aid will be shared by Vincennes University and the student in proportion to the aid each is assumed to possess. The share for Vincennes University will be the lesser of the total amount of unearned aid or institutional charges multiplied by the percentage of aid that was unearned. The student's share will be the difference between the total unearned amount and the institution's share. Vincennes University's share will be reallocated among the Title IV programs, in an order specified by statute, before the student's share. After the student's share is fully allocated among the Title IV programs, any remaining amount owed to a grant will be reduced by half.

**Timeframe for Returning Funds.** Vincennes University will return its share of unearned Title IV funds no later than 45 days after determining that a student withdrew. Students receiving unearned aid attributable to a loan will return their share under the terms and conditions of the promissory note. Students will be responsible to repay unearned aid attributable to a grant under a satisfactory payment arrangement with the Department of Education.

**Determination of Student Withdrawal from Vincennes University.** Vincennes University will determine the withdrawal date by using the date the student began the institution's withdrawal process or officially notified the institution of intent to withdraw or the midpoint of the period for a student who leaves without notifying the institution (*unofficial withdrawal*).

**Official Student Withdrawal Policy.** Students registered for classes at any Vincennes University site that wish to withdraw from all classes must contact the following offices at their specific campus site to declare their intent to officially withdraw.

Vincennes Campus	Dean of Students
Jasper Campus	Student Services Director
Aviation Technology Center	Student Service Advisor
ASL Center	Secretary

## PAYMENT OF RESIDENCE HALL CHARGES

Residence hall charges are billed with tuition and fees. Bills are printed and mailed approximately two weeks before the due date. For those electing the payment plan, the following payment schedule applies.

Fall Semester ..... 1/3 of total charges due August 3, 2009  
1/3 due September 4, 2009  
Final Payment due October 2, 2009

Spring Semester..... 1/3 of total charges due January 4, 2010  
1/3 due February 1, 2010  
Final payment due March 1, 2010

Summer Session ..... 100 percent of cost due upon moving into residence hall

Students are not charged for living in the residence halls on a monthly basis. The above payment schedule is designed to spread the cost throughout each semester. Payments may be made for the entire semester charge any time prior to the due dates. All financial aid, including students loans, will be applied to the entire semester charge for housing regardless of the due date before any excess of aid is refunded.

For students who move out of the residence halls during the semester or summer sessions, the account is adjusted to reflect the number of days the student actually resided in the dorm. Net charge is pro-rated on a *daily* basis and is based on the move-out day recorded by the Housing Office.

# Student Life

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## Student Records Policies and Procedures

### Annual Notification of Rights Under FERPA

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

1. *The right to inspect and review the student's education records within 45 days of the day the University receives a request for access.*

Students should submit to the registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. *The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.*

A student may ask the University to amend a record that they believe is inaccurate. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. *The right to provide written consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.*

One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; an elementary, middle school, or secondary school official serving as a practice teaching supervisor; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

4. *The right to file a complaint with the U.S. Department of Education concerning alleged failures by Vincennes University to comply with requirements of FERPA.*

The name and address of the Office that administers FERPA are:

Family Policy Compliance Office  
U.S. Department of Education  
400 Maryland Avenue, SW  
Washington, DC 20202-5901

### Directory Information

Vincennes University designates the following items as Directory Information: student name, address, telephone number, e-mail address, date and place of birth, classification (FR/SO/JR/SR), parent's or next-of-kin name and address, enrollment status, major field of study, dates of attendance, degrees received, awards and honors received, most recent previous school attended, photograph, weight and height of members of athletic teams, and participation in officially recognized activities and sports. The University may disclose any of these items without

prior written consent of the student, unless notified otherwise in writing by the student each semester by the end of the first week of classes.

## Student Regulations

### Accident Policy

In case of an accident, the student has the right to decide whether he/she wants to be treated by a local physician or go to his/her own physician. In either case, the student is financially responsible for the treatment.

In cases of minor accidents or illness, the student should report to the Health Office located in Harrison Residence Hall.

### Automobile Policy

Any student, commuter or resident, is permitted to operate a motor vehicle on campus. All such vehicles must be registered with the University Police Department and display an appropriate parking permit. Permits may be purchased either at the University Police Department or online at [www.permitstore.com](http://www.permitstore.com).

Students operating motor vehicles on campus must observe University traffic regulations. Violators may be fined and/or have their vehicles towed away at owner's expense.

For more information about our department and to review the traffic rules and regulations, visit our web site at [www.vinu.edu/police](http://www.vinu.edu/police).

### Racial, Ethnic, and Religious Harassment Policy

Vincennes University expects its campus community to respect the rights and dignity of all its members in matters of personnel consideration, admissions, or academic evaluation. Accordingly, the University expressly prohibits racial, ethnic, and religious harassment of its students, employees, and those who seek to join the campus community in any capacity.

Racial, ethnic, and religious harassment shall include, but not be limited to:

1. Physical, psychological, verbal and/or written abuse with regard to race, creed, ethnic origin, or religion. (Examples would include unequal academic expectations, physical harm or threat of such harm, written abuse on papers or records, personal verbal insults, jokes based on a person's race, ethnic origin or religious affiliation.)
2. Any harassing activity (one time or multiple times) which acts to deny an individual the full rights and privileges which are inherent in living, studying, working and visiting on the campuses of Vincennes University. Persons participating in harassing activities as defined may be subject to disciplinary action.

Anyone having a complaint of racial, ethnic or religious harassment should notify the University Director of Human Resources, the Affirmative Action Officer, or the President. The college official will follow the procedures outlined in the Vincennes University Procedures for Resolving Employee Discrimination Complaints.

### Sexual Harassment Policy and Grievance Procedures

**Policy Statement.** It is the policy of Vincennes University that sexual harassment will not be condoned. This policy applies equally to faculty, administrators, classified staff, and students and is in keeping with the spirit and intent of guidelines on discrimination because of sex. Members of the university community can expect to be free from sexual harassment and thus all members of the university community should guard against it. The fact that someone did not intend to sexually harass an individual is generally not considered a sufficient defense to a complaint of sexual harassment, although the reasonableness of the accused's perceptions may be considered. In most cases, it is the effect and characteristics of the behavior on the complaint and whether a reasonable person similarly situated would find the conduct offensive that determine whether the behavior constitutes sexual harassment.

## **Policy Guidelines and Procedures**

**Definition.** Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature constitute sexual harassment when:

- A. Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic pursuits,
- B. Submission to or rejection of such conduct by an individual is used as the basis for employment or academic decisions affecting such individual, or
- C. Such conduct has the purpose or effect of unreasonably interfering with an individual's employment or academic performance or creating an intimidating, hostile or offensive working or educational environment.

## **Policy on Public Speaking, Leaflet Distribution, and Demonstrations**

Vincennes University supports the right of the university community to engage in public speaking, leaflet distribution, and demonstrations provided such activities do not disrupt normal activities or infringe upon the rights of others. Members of the University community are defined for purposes of this policy as University students, employees, and registered student organizations. Public speaking is defined for purposes of this policy as speech directed to a general audience, non specific persons, or directed to specific persons at random.

The University will not allow behavior that violates freedom of speech, choice, assembly, or movement of other individuals or organizations. In short, responsible dissent carries with it sensitivity for the civil rights of others. Accordingly, the University will take whatever steps it deems necessary to:

- Protect the right of any member of the university community to demonstrate and publicly proclaim any view, however unpopular; and
- Protect the freedom of speech, assembly, and movement of any individual or group that is the object of the demonstration

Members of the University community sponsoring or organizing a public speaking event, distributing leaflets, demonstrating or carrying out other equivalent activity will be held responsible for compliance with this policy. Sponsorship does not relieve participating individuals from responsibility for their conduct. Vincennes University students participating in a public speaking event, leaflet distribution, demonstration or equivalent activity, whether sponsored or not, are accountable for compliance with the provisions of this policy as well as the Standards of Student Behavior. Violation of this policy may be grounds for disciplinary action against individuals, sponsoring or participating student organizations, and their officers.

Members of the University community may invite individuals who are not members of the University community to participate in a public speaking event, distribute leaflets, demonstrate, or carry out equivalent activities. University members who invite non-University participants may be held accountable for their compliance with this policy. Failure by non-University participants to comply with this policy may result in appropriate action under State law.

### ***I. Guidelines for Scheduled Public Speaking, Leaflet Distribution or Demonstrations by Members of the University Community***

Members of the University community may schedule a public speaking or leafleting event, demonstration, or other equivalent activity in any outdoor area of the campus, the use of which is not otherwise restricted or scheduled. To schedule an event a "Notice of Intent" form must be submitted to the Dean of Students office on the Vincennes Campus or the Director of Student Services on the Jasper Campus. The Dean of Students or Director of Student Services will respond promptly with approval given on a first-come, first-serve basis after an assessment that such an event will not otherwise interfere with scheduled University use or fail to comply with the guidelines outlined in this document. In the event a request is denied, an appeal may be made to the Assistant Provost for Student Affairs on the Vincennes campus or the Dean on the Jasper campus, who shall respond promptly to any such appeal.

Persons distributing leaflets are to refrain from littering and may be held responsible for costs incurred as a result of littering. Distribution is defined as individuals handing materials to other individuals who may accept them or refrain from receiving them. Leaving materials unattended on a surface to be picked up is considered littering, not distribution.

Leaflets, announcements, statements, or materials proposing a commercial transaction or pertaining to the sales of goods or services are considered commercial speech and are not covered by this policy but rather the University Sales Policy.

## ***II. Guidelines for Unscheduled Demonstrations by Members of the University Community***

It is the intent of this policy to ensure that all demonstrations on campus occur with minimal threat to the safety and security of persons or facilities through proper planning and scheduling. Occasionally, events occur which demand immediate public outcry, and it is not the intent of this policy to limit the students' rights to protest such events.

Members of the University community may hold unscheduled demonstrations, rallies, or equivalent activities, provided the activity does not interfere with routine University functions or does not interfere with an activity in a space which has been reserved in advance. In deciding whether a demonstration is spontaneous, for which no registration is required, the University may consider any relevant evidence, including:

- Whether signs or placards used at the demonstration were commercially produced,
- Whether participants used amplification equipment,
- Whether security was alerted, or media contacted, substantially in advance of the demonstration, or
- Whether other circumstances demonstrate advance planning by one or more organizations.

## ***III. Public Speaking, Leaflet Distribution, or Demonstrations by Uninvited Individuals***

Individuals who have not been invited by a member of the University community and who desire to engage in public speaking, leaflet distribution, or demonstrations outdoors on the University's campus may do so only in accordance with the following procedures:

- Persons wishing to engage in public speaking, leaflet distribution, or demonstrations are required to reserve space by submitting a "Notice of Intent" form at the Vincennes campus to the Dean of Students or the Director of Student Services at the Jasper Campus. Events are approved on a space-available basis. Priority will be given to University departments, registered student organizations, students, faculty and staff. Dates are valid only when authorized by the Dean of Students or Director of Student Services on the "Notice of Intent" form. Application may not be made more than ten (10) business days prior to the date of anticipated use. In the event a request is denied, an appeal may be made to the Assistant Provost for Student Affairs at the Vincennes campus or the Dean at the Jasper campus, who shall respond promptly to any such appeal.
- Public speaking, leaflet distribution, and demonstrations are limited to the brick area located directly in front of the Beckes Student Union on the Vincennes campus and the awning area in front of the Administration building on the Jasper campus. Public speaking, leaflet distribution, and demonstrations by uninvited individuals are prohibited elsewhere on campus.
- A copy of the "Notice of Intent" form must be available for inspection upon request by University officials.
- Persons wishing to speak publicly or to distribute leaflets are prohibited from engaging in the sale or promotion of commercial goods or services unless permission is granted under the University Sales policy.

## ***IV. Guidelines Applicable To All Public Speaking, Leafleting, and Demonstrations***

- Persons may not block or otherwise interfere with the free flow of vehicular, bicycle or pedestrian traffic. The right of way on streets and sidewalks must be maintained.
- Persons may not block or otherwise interfere with ingress and egress into and out of campus buildings.
- Persons shall not obstruct, disrupt, interrupt or attempt to force the cancellation of any event or activity sponsored by the University or by any users authorized to use University facilities.
- Persons shall not engage in harassing, physically abusive, threatening or intimidating conduct toward any person.



- Persons shall comply with the directions of a University official acting in the performance of his or her duty.
- Classes or other scheduled activities shall not be disrupted.
- Use of public address systems and amplified sound will not be permitted without prior approval from the Dean of Students or Director of Student Services.
- Where an invited speaker is the object of protest, persons may demonstrate and/or leaflet outside the building where the speech is taking place. Persons who wish to enter the building must do so as members of the audience and must give the speaker a respectful hearing. Failure to grant the speaker a respectful hearing may result in the offending persons being asked to leave. Signs, placards or similar paraphernalia associated with a demonstration will not be carried into the building.
- The safety and well being of members of the campus community collectively and individually must be protected at all times. The University maintains the right to define the time, place and manner in which activities occur on campus. The Dean of Students Office or Director of Student Services will identify appropriate spaces for planned and spontaneous demonstrations.
- University property must be protected at all times.
- In accordance with the Vincennes University Standards of Student Behavior persons on University property may be required to provide identification and evidence of qualification to a University official upon request. Evidence of qualification means evidence that the person is a member of the University community.
- Persons engaging in activities on University property are subject to and expected to comply with all applicable University policies and procedures.

Failure to adhere to the above described University procedures will result in revocation of an approved application and/or other appropriate administrative action.

### **Sales Policy**

The Board of Trustees has adopted the following policy governing sales on the Vincennes University campus.

Vincennes University requires prior approval for sales on campus by any student, faculty member, staff member, student organization or outside group invited by such a person or organization. The Dean of Students at the Vincennes Campus, or the Director of Student Services at the Jasper Campus will retain the right of approval of the product as well as the date, time, and location of the sales. If the use of buildings other than the Student Union on the Vincennes Campus or the Administration Building on the Jasper Campus is requested, additional approval must be obtained from the respective building supervisor.

Approval must also be obtained for sales off-campus by an individual or organization that represent or use the name of the University.

Vincennes University also requires prior approval for sales by uninvited outside groups who wish to come on campus. The Dean of Students or the Director of Student Services will retain the right of approval of the product as well as the date and time of the sales. The areas designated for sales by outside groups on the Vincennes campus are the Beckes Student Union Grand Hall or brick area in front of the Union and, on the Jasper Campus, the awning area in front of the Administration building as well as the Administration Building lobby. For the purpose of this policy, sales are defined as the exchange of property or services for a determined amount of money or its equivalent or the recruiting of possible sales.

### **Standards of Student Behavior**

**Introduction.** Vincennes University is a community dedicated to personal, academic excellence and growth. Choosing to join this community obligates each member to a standard of ethical behavior as stated in the Student Creed.

*As a Vincennes University student, I commit to a code of civilized behavior.  
I will practice personal academic integrity; I will respect the dignity of all persons, including myself; I will respect the rights of others; I will not condone bigotry; I will strive for the openness to learn from differences in people, ideas and opinions; I will demonstrate concern for others, their feelings, and their need for conditions which support their work and development. Allegiance to these ideals requires me to refrain from behavior that threatens the freedom and respect every individual deserves.*

The university is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the university community must choose behaviors that contribute toward this end. Student behavior that is not consistent with the Standards of Student Behavior is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, appropriate consequences are imposed in the form of sanctions.

The Vincennes University Standards of Student Behavior is a statement of expectations for students and student organizations on the basis of the philosophy of Vincennes University as well as Federal and State laws. These regulations are prepared to protect the health, welfare, and safety of the students of Vincennes University. Most of the regulations, accordingly, reflect the policies of Vincennes University, State and Federal laws or ones of common sense. This Standards of Behavior policy applies to all students enrolled in Vincennes University courses. Students are expected to be good citizens and to engage in responsible behaviors that reflect well upon their university, to be civil to one another and to others in the university community, and contribute positively to student and university life. Therefore, students should understand the specifics of the conditions they have accepted when they enroll. Students need to be aware that violations of the University Standards of Behavior may result in some form of disciplinary action.

**Definitions.** The following definitions apply to terms found in the Student Standards of Behavior:

1. "University" and "campus" are used interchangeably and both apply to Vincennes University.
2. "Student" includes all persons taking courses at the university, both part time and full time. Persons who are not officially enrolled for a particular term but who have a continuing relationship with the university are considered "students". Therefore, sanctions can be imposed on applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from the university while a disciplinary matter is pending.
3. "Standards" represents the Standards of Student Behavior.
4. "University official" includes any person (student, faculty or staff) employed by the university and performing administrative or professional duties, or any person serving the university in an official capacity.
5. "Member of the university community" includes any person who is a student, university official, trustee, or any other person serving the university in an official capacity, university guests on university property or at a university related activity.
6. "University property" includes all real or personal property in the possession of or owned, used, or controlled by the university and all university facilities whether utilized by the university or a university auxiliary organization.
7. "Organization" means any registered student club or organization.
8. "Shall" and "will" are used in the imperative sense.
9. "May" is used in the permissive sense.
10. "Day" applies to a day when the university is open for normal business, regardless of whether classes are in session (e.g., the day preceding Thanksgiving). In determining any deadlines as set forth in the Code, references to a number of "days" prior to or after occurrence of an event shall not include the day of the event.
11. "Health" applies to physical or mental well-being.
12. "Deliberate Indifference" refers to the conscious or reckless disregard of the consequences of one's actions or inactions.

13. “Standards of Behavior Administrator” includes the Dean and Associate Dean of Students, or any other university official assigned to administer these standards and to perform the duties prescribed in these procedures.

**Jurisdiction.** This Standard addresses misconduct that takes place on university premises and addresses off campus behavior when it may have or has had an adverse impact upon the university community or, if repeated on the university, poses a threat to the safety of members of the university community.

The Standard also applies to university sponsored events, activities, trips, etc., which may occur off campus. A student who violates the Standard and breaks the law is subject to university, civil and/or criminal authorities. The university, at its sole discretion, may pursue disciplinary action against a student while the student is also subject to criminal proceedings. The university reserves this right even if criminal charges are pending, reduced, deferred or dismissed.

The Vincennes University judicial system is the responsibility of the Office of Judicial Affairs through the Dean of Student’s office. The Associate Dean of Students has specific responsibility for the operation and administration of the judicial system.

**Misconduct Activities which Subject a Student or Student Organization to Disciplinary Action.** Vincennes University recognizes that it must create an environment where each student will be free to pursue her or his academic interests without interference from others. This includes upholding the integrity of the academic process as well as providing a community free of disruptions. The following restrictions are designed to foster a healthy and peaceful learning community. Apathy or deliberate indifference are not neutral acts and may be violations of this standard.

#### ***Protecting the Rights of the Educational Process***

Students are expected to be honest in all academic work. A student’s placement of his or her name on any academic exercise shall be regarded as assurance that the work is the result of the student’s own thought, effort, and study. The following behavior is subject to disciplinary sanctions.

1. Acts of dishonesty, including but not limited to the following:
  - a. Cheating, plagiarism, or other forms of academic dishonesty.  
Plagiarism is defined as presenting someone else’s work, including the work of other students, as one’s own. Any ideas or materials taken from another source for either written or oral use must be fully acknowledged. A student must not adopt or reproduce ideas, opinions, theories, formulas, graphics, or pictures from another person or source without acknowledgement. The instructor will determine appropriate student disciplinary action that is consistent with the academic dishonesty policy contained in the syllabus of the instructor.
  - b. Furnishing false information to any university official, faculty member, or office.
  - c. Forgery, alteration, or misuse of any university document, record, or instrument of identification.  
Incidents under b and c will be referred to the Dean of Students, who will determine appropriate student disciplinary action in keeping with procedures used in the handling of other types of student conduct situations.
2. Disruption or obstruction of teaching, research, administration or other university activities, including its public service functions on or off campus, or of other authorized non-university activities when the conduct occurs on university premises. (This policy is not intended to hinder organized, peaceful, and orderly protests.)

#### ***Protecting the Rights, Safety, and Dignity of the Individual***

Any of the following activities, the aiding, abetting, inciting, encouraging, or by his or her presence, supporting of any of the following activities, constitutes misconduct for which students may be subjected to disciplinary action. Student organizations may be subject to disciplinary action up to and including revocation of recognition. These violations include but are not limited to:

1. physical or verbal abuse, threats, intimidation, harassment, coercion and/or other conduct which threatens or endangers the health or safety of any person resulting in an individual being fearful for imminent bodily harm and/or the emotional/mental disruption of a person's daily life or educational environment;
2. students shall not engage in any act that is sexual in nature and which is committed under pressure, force, threat, or coercion, or without the full and informed consent of all persons involved. For the purpose of this policy, the current, active state code states that consent must be freely and actively given through mutually understandable terms or actions. A person is deemed incapable of giving consent when that person is a minor, is mentally disabled, mentally incapacitated, physically helpless, under the influence of alcohol or drugs to the point of being unable to make a rational decision, unconscious or asleep. A person always retains the right to revoke consent at any time during a sexual act;
3. theft or attempted theft of and/or damage to property either personal or public, on or off campus;
4. hazing, defined as an act which endangers the mental or physical health or safety of a student, or which destroys or removes public or private property, for the purpose of initiation, admission into, affiliation with, or as a condition for continued membership in, a group or organization; (Expressed or implied consent of the victim will not be a defense.)
5. failure to comply with verbal and/or written instructions of university officials acting in the performance of their duties and made within the scope of their authority; (Students shall honor the official request of any university official in the performance of his/her duties. Each staff or faculty member represents the institution and the attack or threat of attack on an official is a threat against the university itself. The above is also applicable to student employees when performing their duties within the scope of their authority). Grievances against a staff or faculty member may be filed with the program and department head responsible for that area of the university in accordance with the institution's grievance policy;
6. violation of any policy, rule, or regulation published in hard copy or available electronically on the university website;
7. violation of any federal or state law;
8. possession of firearms, explosives, or fireworks;
9. the use or threat of use of a weapon, or any item or objects that simulate weapons, on university premises that could harm, threaten or cause fear to others;
10. falsely reporting a fire, bomb, or any other emergency by any means;
11. misuse or unauthorized possession of university owned emergency or safety equipment, creating a fire hazard or be in unauthorized possession of flammable or hazardous material;
12. disrupting the normal operations of the university and/or infringing on the rights of other members of the university community; leading or inciting others to disrupt scheduled and/or normal activities within any university building or area;  
(*This policy is not intended to hinder organized, peaceful, and orderly protests.*)

### ***Promoting Personal Responsibility and Integrity***

The Vincennes University community strongly promotes the development of a personal values system that focuses on each person assuming responsibility for her/his own actions, and on maintaining dignity and truth. The following restrictions outline the primary parameters within each individual shall be held responsible.

1. Students shall not engage in behavior that is disruptive, lewd, or indecent, regardless of intent, which breaches the peace of the community.
2. Students are responsible for the actions of their visitors or guests. Students are expected to take reasonable action to prevent their guests from violating university regulations.
3. Failure to comply and/or interfere with the university disciplinary system.
4. Students shall not falsify or misrepresent facts on any university form or document and the unauthorized and/or improper use of a university form or document.
  - a. *Forms, Records, and Documents.* Falsification of records and/or misrepresentation of facts on any university form or document may result in disciplinary action and/or cancel-

- lation of registration. This includes but is not limited to housing contracts, registration material data sheets, fee receipts, checks for payment to the university, applications for vehicle registration, application to be an exception to the housing policy, applications for release from a housing contract, listing an incorrect place of residence, or failure to update a change of correct address.
- b. *ID Card Policies.* It shall be illegal for a student to allow his/her Student Identification Card to be used by another person (whether a student or not). These cards are the Property of the university and entitle the student to certain privileges. Therefore, no student shall have access to the privileges on the basis of any but his/her own Student Identification Card. Further, it is against university regulations for any person to alter in any way the information contained on the Student Identification Card. This card must be carried with the student always and must be shown on request to any university official.
5. All activities sponsored by student organizations must receive approval before the event by the Student Activities Office located in Beckes Student Union. The student organization itself, and individual students involved, will be held responsible for violations of the Standards of Behavior.
  6. Computing resources may not be used for illegal or disruptive purposes. Examples include:
    - a. Unauthorized copying or use of copyrighted material.
    - b. Destruction of or damage to hardware, software or data belonging to Vincennes University or other users.
    - c. Disruption or unauthorized monitoring of electronic communications.
    - d. Harassment of other users.
    - e. The accidental or intentional introduction of a destructive program, such as a "virus," can have serious consequences. Users should be aware of the threat of viruses on networks and in public labs and use adequate protection against spreading them to their own machines. Both freeware and commercial anti-viral programs are available from various sources. Any attempt to compromise the university computer security systems will not be tolerated.
  7. Computing resources shall be used in accordance with the high ethical standards of the university community. Examples of unethical use which also may involve illegality include:
    - a. Violations of computer system security.
    - b. Unauthorized use of computer accounts, files, and data which do not belong to the user.
    - c. Unauthorized use of access codes assigned to others.
    - d. Intentional use of computer telecommunication facilities in ways that impede the computing activities of others.
    - e. Academic dishonesty (plagiarism, cheating).
    - f. Violation of software license agreements.
    - g. Violation of network usage.
    - h. Violation of another user's privacy.

### ***Prohibited Use of Illicit Drugs and Alcohol***

As set forth in local, state, and federal laws, and the rules and regulations of the university, Vincennes University prohibits the manufacture, use, possession, and distribution of illicit drugs and alcohol by students, employees and visitors in buildings, facilities, grounds or other property owned and/or controlled by the university. This applies to all individuals participating in any university-sponsored activities.

The university will enforce all state and federal laws regarding the possession and use of alcohol and the manufacture, distribution, dispensing, possession, or use of any controlled substance. Drug and alcohol laws are vigorously enforced at Vincennes University. Violators are subject to criminal prosecution. The enforcement techniques can range from plain view violation to long-term undercover investigations by local, state, or federal agents and agencies.

The inappropriate use of a controlled substance is detrimental to Vincennes University's faculty, staff, students, and the public served. The university will attempt to assist a student or employee involved with the inappropriate use of alcohol or a controlled substance in obtaining rehabilitation. However, the ultimate responsibility for overcoming a dependency or inappropriate use of alcohol or of a controlled substance is that of the individual. Details of the policy are printed and

distributed annually in the Student Handbook and University Employee Manual. Vincennes University has an alcohol abuse program emphasizing education and intervention and meets the requirements of the present drug and alcohol requirement, including the Drug Free Schools and Communities Amendments of 1989.

**Procedures for the Adjudication of Violations of the Student Standards of Behavior.**

**To the Student:** This material has been prepared to assist you in understanding the proceedings which are taking place as a result of a reported incident. The presentation of this information does not presume the degree of your involvement in the reported incident, and the administrator with whom you are involved will not approach your case with any predetermination of a final disposition. Therefore, the receipt of this material should not be interpreted as a prejudgment of your involvement.

The State of Indiana has charged Vincennes University with the responsibility for providing an orderly university environment conducive to learning in which persons and property are protected from harm. Priorities inherent among these responsibilities include:

- Protect persons and property;
- Uphold Federal, State, local laws and university regulations;
- Provide an orderly environment conducive to learning;
- Encourage the individual growth of students.

The Board of Trustees of Vincennes University has adopted university policies and procedures in exercise of the above responsibilities. The university administration is responsible for providing the process for dealing with violations of the policies. The process, which has been developed for handling conduct situations, includes the following:

***Conduct Adjudication***

Conduct adjudication is a process, which is used for all alleged violations, which may result in a change of student status. The process contains three fundamental steps:

Presentation of Alleged Violations:

A student who is accused of an alleged violation of the University Standards of Student Behavior is notified, either in writing (at the last reported local address) or verbally, of the alleged violation by the Dean or Associate Dean of Students.

Hearing:

Hearings may be conducted by the Associate Dean of Students, the Dean of Students or other hearing officers designated by the Dean of Students. All hearings provide the opportunity for the accused student to respond to charges, to present witnesses, and to raise questions. The hearing officer, through questioning, seeks to arrive at the truth. Should a student fail to appear at a scheduled hearing, after proper notification, the hearing may be conducted in his/her absence at the discretion of the hearing officer.

Presentation of Decision:

An explanation of the action and its effect on the student is made, which may include probation stipulations and future expectations for the student's behavior. The student is informed of the right to appeal and the procedures to follow.

*The right to appeal the Dean or Associate Dean of Students decision is afforded all Vincennes University students as a matter of policy and due process.*

Appeal:

A student has the opportunity to appeal the decision of the disciplinary hearing to the Student Life Advisory Committee. Appeal requests must be presented to the Dean or Associate Dean of Students in writing within five business days of the receipt of the decision from the hearing process.

The Student Life Advisory Committee is composed of faculty, professional staff, and support staff. They are identified during the last month of the spring semester and serve the following academic school year.

### ***Description of Rights in Disciplinary Situations***

Students have been accorded rights in disciplinary situations by the Board of Trustees in keeping with procedural due process. Basically, students have the right:

1. to be aware of the alleged violation a reasonable time before the hearing;
2. to bring an advisor to the hearing;
3. to have a fair hearing;
4. to be informed of the decision; and
5. to appeal decisions of the hearing.

*The Complainant and Respondent may be assisted by an advisor of their own choice. Advisors are not permitted to speak or to participate in a hearing. Complainants and Respondents who choose an advisor shall notify the Associate Dean of Students or designee prior to the hearing. Advisors may not appear in lieu of the Complainant or Respondent; however, an advisor may consult with the Complainant or Respondent during a hearing and may assist with preparation for the hearing.*

### ***Standards of Proof***

In many hearings, there will be strong (i.e., clear) evidence presented to persuade the hearing officer that the student did violate a particular policy. Sometimes, however, there may be ambiguities and contradictions which require that person to decide whom he/she believes or whom he/she thinks is more credible. As in a court of law, the student is always innocent until proven otherwise. However, unlike a court, the standard of evidence which must be presented to prove that a student violated the policy is less stringent and the determination of a violation is made on the basis of whether it is more likely than not that the student charged violated the Standards of Student Behavior. This is known as “a preponderance of the evidence.”

In other words, if the hearing officer is weighing the evidence on some imaginary scale, he/she must be more than 50 percent sure that the student violated the policy to find him/her responsible. He/she does not need to be 100 percent or even 75 percent sure, just more than 50 percent sure.

### ***Types of Disciplinary Actions***

The actions that may be taken when a student is charged with a violation of the Student Standards of Behavior range from not in violation up to and including expulsion from the university. The action taken depends on the severity of the violation, the degree of involvement of the student, the individual circumstances of each case, the student's disciplinary record and possibly the student's academic situation.

- **Not in Violation** - A student may be found not in violation when there is evidence presented during the hearing that shows the student was not responsible. A record of that decision will be maintained for one year.
- **Warning** - Minor violations of the conduct code usually merit a warning. If the student has continuing minor violations, he/she is subject to further disciplinary action.
- **Disciplinary Probation** - A report of the student's misconduct is maintained in the disciplinary records in the Dean of Students Office as a severe warning concerning future violation of the conduct code. If no further violation occurs, the incident does not become a part of the student's permanent college records.
- **Loss of Privileges** - Denial of specified privileges for a designated period of time.
- **Restitution** - Compensation for loss, damage, or injury. This may take the form of appropriate service and/or monetary or material replacement.
- **Discretionary Sanctions** - Work assignments, essays, service to the university, or other related discretionary assignments.
- **Permanent Disciplinary Probation** - A report of the student's misconduct is entered PERMANENTLY on his/her college records. This information concerning the violation(s) accompanies the college transcript as a matter of permanent record.
- **Suspension** - In cases of serious misconduct, the student may be suspended from the university for a designated period. Once an individual has been suspended, he/she loses the privilege of returning to the university and/or attending any university activity during this period.

When a student is suspended, he/she is expected to immediately check out of the Residence Hall and/or leave the university. Suspension becomes a part of the student's permanent records.

- **Expulsion** - In cases of serious misconduct, a student may be expelled PERMANENTLY with no option to return to the university. This also becomes a matter of permanent entry on the student's record.
- **Immediate Temporary Suspension** - In cases of serious misconduct, a student may be suspended from the moment of first notification of charges until the hearing. This hearing must be held within a reasonable time after the person has been notified.

### ***Right to Appeal***

The right to appeal the Dean or Associate Dean of Students decision is afforded all Vincennes University students as a matter of policy and due process. All appeals of disciplinary hearing decisions will be made to the Student Life Advisory Board and an appeals hearing will be called. The Appeals Hearing will include:

- the sanctioned student; (*who may be assisted by an advisor*)
- the Dean or Associate Dean of Students;
- an Appeals Hearing moderator; and
- the five members of the Student Life Advisory Committee

### ***Preservation of Records***

Dependent upon the type of action taken, disciplinary records are maintained on file in the Dean of Students office for specific periods of time:

1. not in violation - one calendar year, unless involved in additional violations
2. warning, loss of privileges, restitution, discretionary sanctions - one calendar year, unless involved in additional violations
3. disciplinary probation - two calendar years after the date of the last action taken
4. permanent disciplinary probation - permanently
5. suspension - permanently
6. permanent suspension - permanently
7. alcohol or drug-related violation - three years following the academic year of violation

**Standards Review.** The Standards of Student Behavior shall be reviewed annually under the direction of the Assistant Provost for Student Affairs. In addition, the Faculty Senate will, as part of the review, be invited to make recommendations with regard to the Standards of Student Behavior. These recommendations will consist of omissions, clarifications, constructive changes, and other matters germane to the proper interpretation and operation of the Standards of Behavior. Questions of interpretation regarding the Standards of Behavior or Student Handbook shall be referred to the Dean of Students office. In keeping with normal university policy approval processes, the Standards of Student Behavior and Student Handbook may, at the sole discretion of the university, be amended at any time.

### **Student Grievance Policy**

If students have grievances involving University professors or staff members, they are to process such grievances through the University administrative structure.

The student should first discuss any grievance thoroughly with the professor or staff member. If the grievance is not resolved, the student should discuss such with the faculty or staff member's immediate supervisor. Any unresolved grievances can be processed through the administrative structure to the President, if necessary.

The resolution of student grievances will be transmitted to the student and through the administrative structure to all involved parties.

1. The student should meet with and discuss the matter thoroughly with the professor or staff member attempting to reach resolution immediately, but no later than 30 calendar days after the incident(s) has occurred.
2. If resolution is not achieved and the student wishes to pursue his/her grievance, the grievance must be filed in written form with the direct supervisor of the faculty or staff member. The



grievance must be filed within one week after the meeting with the faculty or staff member, subject to the availability of the parties involved.

3. The supervisor receiving the grievance will do the following within three weeks:
  - a. Inform the faculty or staff of the receipt of the grievance.
  - b. Investigate the situation which may include but not be limited to requesting a statement of circumstances relevant to the grievance from the faculty or staff member, a conference with either or both parties, additional documents and other information relevant to the situation.
  - c. The supervisor makes a ruling regarding the grievance within one week after the requested documents are received and conferences concluded.
4. If either party wishes to appeal the ruling, a statement of appeal must be filed with the direct supervisor of the person making the previous ruling within one week of the postmark of the letter containing the original grievance decision.
5. The hearing process is repeated with the addition of information from the original supervisor. If the appeal is filed by the faculty or staff, the student will be duly notified.
6. The grievance may be continued by either party through the administrative structure to the President.

## **Student Services**

### **Academic Skills Center**

The Kirkwood Academic Skills Center at Vincennes University offers many academic support services and classes to help students be more successful in college and provides an environment conducive to study. Free tutoring from both peer and professional tutors is available in most subjects. Study Skills classes provide students with the key abilities necessary to become a successful student by knowing how to learn, including courses in Study Skills, Success Strategies, Learning Strategies, and Career Planning. Other support classes are offered in spelling, phonics, and self-paced and distance education developmental education. Individualized materials are available for students experiencing difficulty in particular areas of study. Extensive equipment is available for student use including internet accessible computers, assistive technology (Kurzweil and Text Help), study tables, carrels, and quiet study areas. The Kirkwood Academic Skills Center in the Shircliff Humanities Building is open weekdays and evenings to all students without charge. Additional Academic Skills tutoring is frequently available at alternative sites across campus. Tutoring begins the third week of classes each semester. The STEP program and Partners for Success are coordinated through the Director of Developmental Education in the Kirkwood Academic Skills Center.

### **The Center for Career and Placement**

The Center for Career and Placement is a partner with Vincennes University academic divisions, other departments in Student Affairs, and locations across the University community to provide quality services and support to our students and alumni. Services of the Center include assistance with:

- Career assessments
- Career counseling
- Personality profiles
- Learning Style inventories
- Academic major decision-making
- Internships and other experiential learning
- Resources for on-campus and local off-campus part-time employment
- Networking students with employers
- Job search
- Transfer to bachelor degree programs other than those offered by Vincennes University
- Graduate school information
- Campus recruitment and career fairs
- Workshops on career and employer relations topics
- Classroom presentations
- Marketing Yourself at VU series

- Web-based job and resume listing service for students and employers
- Research on student employment and continuing education upon graduation

The staff of the Center for Career and Placement develops ongoing relationships with local, state, national and international employers through faculty, advisory committees, alumni, friends of the University and professional associations such as the National Association of Colleges and Employers and the Career Development Professionals of Indiana.

The Center for Career and Placement is located in the South Lobby of Vigo Hall, across from Tecumseh Dining Center. The phone number is 812-888-4280.

### **COPE Student Support Services**

COPE Student Support Services offers a complete package of services to promote retention, graduation, and transfer to four-year institutions. Criteria for admission into this program requires that a student be either first generation, (neither parent graduated from a 4-year college), meet income guidelines, or have a documented physical or learning disability. The program is based on an individualized counseling model that includes academic support, personal counseling, individualized tutoring, professional and peer mentoring, transfer assistance, career counseling, and assistance in completing financial aid forms. COPE SSS provides Academic Support Groups for students with learning disabilities and offers workshops to all program students on topics such as study skills, stress management, self-esteem and interview skills.

We encourage early application to the program since enrollment is limited. Students are accepted on the basis of eligibility, potential and need assessment, and available space. Since this program is funded through a federal grant, there is no additional cost to the student. COPE Student Support Services is located on the third floor of Vigo Hall. The phone number is 812-888-4515, and our website is: [www.vinu.edu/studentservices/COPEStudentSupportServices](http://www.vinu.edu/studentservices/COPEStudentSupportServices).

### **Counseling Center**

The Vincennes University Counseling Center offers comprehensive emotional and supportive counseling to VU students, staff, and faculty. The Counseling Center is staffed by three mental health professionals, all certified or licensed by the State of Indiana. Therapeutic services are confidential, and in most instances are free of charge. Students may seek out the Counseling Center on their own or come on the suggestion of others. Depression, anxiety, relationship problems, sexual assault, and alcohol or other drug use are just some of the issues that can be discussed. Emergency crisis intervention is available after hours. In addition to direct therapeutic services, referrals to local social service agencies and medical resources are facilitated when appropriate. Consultation, workshops, and educational materials about a variety of topics are also available to individuals and groups. The Counseling Center is located in Room 134 of the Welsh Administration Building; phone 812-888-4374 to schedule an appointment or check out our website under the Student Services tab at [www.vinu.edu](http://www.vinu.edu).

### **Disability Services**

The Office of Disability Services reviews requests and determines appropriate accommodations for students with disabilities. Students with psychological, physical, sensory, communicative and/or learning disabilities should seek out this office as soon as possible after admission to VU if they require academic accommodations. The student will be required to provide copies of medical or psychometric evaluations that document the presence of a disability and the impact of the disability on the student's level of functioning. The Office of Disability Services also coordinates the availability of assistive technology at various campus locations to provide accessible classroom materials and equipment. Vincennes University complies with the requirements set forth by the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act to assure the rights of individuals with disabilities to fair, non-discriminatory treatment. The Office of Disability Services is located at the South Entrance of Vigo Hall. The phone number is 812-888-4501. Specific procedures for requesting an accommodation for a disability may be found at the Office of Disability Services website at [http://www.vinu.edu/cms/opencms/student\\_services/disability\\_services/](http://www.vinu.edu/cms/opencms/student_services/disability_services/). Students that will be requesting accommodations should view the Disability Services website for documentation requirements.

## **English as a Second Language (ESL) Program**

The goal of the English as a Second Language (ESL) Program at Vincennes University is to provide international students with the English language skills needed for successful completion of regular academic course work. The ESL program is required of all international students who apply for regular admission to the University, but who have Test of English as a Foreign Language (TOEFL) scores below 525 (197 Computer Based TOEFL, 71 Internet Based TOEFL). The ESL Department also administers both the Institutional TOEFL and the Focal Skills Test of English Proficiency.

## **Curtis G. Shake Learning Resources Center**

The Curtis G. Shake Learning Resources Center is home to Shake Library, Byron R. Lewis Historical Collections Library, the Assessment and Testing Center, the Center for Teaching and Learning, Media Services, IHETS classrooms, a two-way distance learning classroom, four computer classrooms containing 106 computers, a conference room, and additional meeting rooms.

**Shake Library**, the main library of Vincennes University, has a seating capacity of more than four hundred and contains space for over 120,000 volumes. The library houses an extensive reference collection, a periodical browsing area with 450 titles, meeting rooms, a microform/multimedia-use area, a computer commons, a computer lab and a computer reference cluster providing student access to 99 networked computer stations, along with facilities to support laptop and wireless usage. All computers in the library provide students with full Internet access, including email, word processing, spreadsheet applications, and a host of educational software programs.

The library contains approximately 90,000 books and bound periodicals, over 30,000 periodical titles available electronically through 36 databases, a media collection consisting of DVDs/videos, CDs, CD-ROMs, and microform copies of journals, magazines and newspapers. The library's resources are available to students, faculty, and staff more than ninety-nine hours each week during the regular school year.

Library holdings may be accessed through VU WebCat, the library's Web-based catalog that lists books, electronic books, DVDs, videotapes, music CDs, and periodical titles in print subscribed to by the library. VU WebCat also has hundreds of links to selected Web sites that are beneficial for college-level research. Library users have access to electronic database providers such as EBSCOhost, LexisNexis, ProQuest, SIRS, NewsBank, Credo Reference, WorldCat, Gale, Facts.com, ARTstor and Britannica Online via the library's home page. These web services provide access to citations, full-text articles and images from encyclopedias, journals, magazines, newspapers and other reference materials. In addition, the library maintains a CD-ROM database housing legal resources containing the full-text to legal documents.

To supplement the main library holdings, all students may also make use of the resources and facilities of the Knox County Public Library. The library is a short distance from the University and has an excellent collection of books, periodicals and multimedia.

**The Byron R. Lewis Historical Collections Library**, a part of Shake Learning Resources Center, was opened in 1967. In addition to housing the VU archives, the library contains a Regional History Collection of documents, letters and other valuable papers concerning the area that originally made up the Indiana Territory (1800-1816), and consisted of the present states of Indiana, Michigan, Wisconsin, Illinois and a part of Minnesota. Lewis Library has genealogical materials that include some county and state records. It serves as a historical reference for faculty, staff and students of Vincennes University and is also open to the general public. In addition, Lewis Library has a growing Web-based digital resources collection of books, images and documents.

**The Center for Teaching and Learning** provides and assists faculty and adjunct faculty with professional development in the use and integration of instructional technology in classrooms, consultations, classroom observations, and pedagogical issues. The Center provides faculty with hands-on access to state-of-the-art computers, multimedia equipment for curriculum development and a technologically equipped classroom. The Center conducts workshops and

seminars to promote awareness of sound teaching strategies and instructional issues for faculty and adjunct faculty. The Center's Senior Instructional Designer assists faculty in the use of instructional strategies, methodologies and technologies that have been shown to engage students, improve learning, and promote retention. In addition, the Center maintains a professional development library of educational materials for enhancing instructional design, curriculum development, technology integration, and classroom instructional issues.

**The Assessment and Testing Center** provides a secure testing environment for both computerized and conventional, paper/pencil based testing. Online, web based testing technology delivers University Accuplacer placement tests for course placement for new students, and BlackBoard tests for Vincennes University courses, (both "on campus" and Distance Education). Online exams for professional and career certifications are also available for Microsoft, Cisco, Novell, CompTia, Microsoft Office Specialist, and Federal Aviation Administration exams. The Center is a licensed testing site for PearsonVUE, Certipoint, CLEP, Lasergrade, and Prometric. The Assessment Center is also a regional State of Indiana G.E.D. testing center, serving the local and surrounding communities. Proctor services to deliver tests are also available to students attending other universities who live in the area and need an objective, professional test proctor and secure test facility. At this time tests given include the following.

Accuplacer Computerized Placement Test (CPT)	GED High School Equivalency Exam
CLEP tests	General Education Math Achievement
DANTES tests	Institutional SAT test
Departmental tests	National ACT
Exit tests for graduating students	National SAT I and II
Foreign Language Placement tests	Quiz programs and study software
	Written placement tests (DTLS/DTMS)

Testing hours are from 9:00 a.m. to 2:00 p.m. daily, on normal University work days. Inquiries may be made by phoning 812-888-5404 or email [tcronk@vinu.edu](mailto:tcronk@vinu.edu).

Students who have applied and been accepted for admission to the University may take their Entry/Placement test early by reporting to the Assessment Center, or they may take the test during orientation. All incoming students are to take the Entry/Placement test during or prior to orientation.

## **Military Science**

### ***Army ROTC***

Army ROTC is a college elective open to all full-time Vincennes University students. Upon completion of the basic course, students qualify to enter the Army ROTC Advanced Course at a university that offers an Advanced ROTC Program, such as the Wabash Army ROTC Battalion at Indiana State University. Upon completion of the Advanced Program, students obtain a commission as an officer in the regular Army, Army Reserve, or Army National Guard.

The ROTC program builds students' leadership expertise, communication, decision-making skills and self-confidence, which can be applied immediately while in college or upon graduation from college. The leadership and management skills taught in ROTC are in high demand in the civilian market as well as in the military. The overall program includes the Basic Course (Vincennes University) for freshmen and sophomore level students, and the Advanced Course for juniors and seniors at an upper level institution, such as Indiana State University, in Terre Haute. There is no military obligation for students taking the Basic Courses, which focus studies on basic military concepts and the principles of effective leadership and management. The ROTC Advanced Course at an upper level institution focuses on tactical operations as well as advanced techniques of management, leadership and command. Qualified students must meet certain requirements to enroll into the Advanced Course. While in the Advanced Course, students attend the ROTC summer training camp at beautiful Fort Lewis, Washington between their junior and senior academic years. There are, however, several ways to accelerate the student who has missed the opportunity to complete the Basic Course at Vincennes University. For students

planning to attend Indiana State University, Rose Hulman Institute of Technology, DePauw University, or Saint Mary of the Woods, this can be accomplished by attending a four to five week ROTC Basic Camp at Fort Knox, Kentucky, between the student sophomore and junior academic year. Upon graduation from the Basic Camp, the student is fully qualified to contract with the Wabash Valley ARMY ROTC battalion Advanced Course Program in Terre Haute, finish out the remaining two years of ROTC training and obtain a commission as a Second Lieutenant upon graduation from college.

For more information, contact the Wabash Battalion Army ROTC at the Rose-Hulman Institute of Technology, Lower Level Logan Library, 5500 Wabash Avenue, Terre Haute, Indiana, 812-877-8345 or via the Internet at <http://www.rose-hulman.edu/AROTC/>.

### ***Air Force ROTC***

Air Force Reserve Officer Training Corps (AFROTC) at Vincennes University is offered through AFROTC Detachment 218 at Indiana State University under the control of Lieutenant Colonel Tammy K. Lundborg, Commander, and taught by active duty Air Force officers assigned as ROTC faculty. Lieutenant Colonel Lundborg's office is located in Room 203 of the Myers Technology Center. She may be contacted at either <http://www.indstate.edu/afroted/> or [tlundborg@isugw.indstate.edu](mailto:tlundborg@isugw.indstate.edu).

Credits received as a result of successfully completing Basic Military Science courses may count toward degree requirements as general free electives. All Vincennes students are eligible to enroll in Air Force ROTC courses; however, entry into the Professional Officer Course (POC) is limited to qualified students who have been selected to pursue an Air Force commission. Upon graduation with a baccalaureate degree and completion of the Air Force ROTC program, students receive a commission and enter the active duty Air Force as a second lieutenant.

**Four-Year Program.** The AFROTC curriculum normally spans four years. The first two years allow non-scholarship individuals to try the program without any obligation, while the last two years are for those who complete field training and wish to pursue a career in the Air Force.

**Field Training.** Prior to commissioning, normally between a student's sophomore and junior year, all cadets must attend a field training session at a designated Air Force base. Field training for cadets is six weeks and involves physical conditioning, weapons and survival training, and opportunities for developing skills as a leader and team member.

**Financial Assistance.** Scholarships can be earned to pay for tuition, textbooks, and laboratory fees. A tax-free monthly allowance, ranging from \$250 to \$400 per month, is also provided for the academic year. College students are eligible to apply for the In-College Scholarship Program. Three-year and two-year scholarships are available for students pursuing particular Air Force careers or majoring in certain academic disciplines. Health professions scholarships are also available to qualified students in any academic major who intend to go on to medical school. Nursing scholarships are available to qualified students pursuing a baccalaureate degree in nursing. Students attending summer field training and the optional Professional Development Training program are paid living and travel expenses. Uniforms and books for Air Force ROTC classes are furnished at no charge to students. Air Force ROTC classes are not charged to the students' tuition.

**Professional Organizations.** Arnold Air Society is a service and professional organization composed of cadets in the Air Force ROTC Program. Cadets are selected for membership based on personal merit and academic achievement. The goal of this organization is to enhance Air Force ROTC programs within the campus environment.

**Educational Delay.** Cadets may request to postpone entering active duty until completion of an advanced degree or professional school. Requests are considered on a case-by-case basis.

**Career Information.** Graduates of Air Force ROTC enter the active duty Air Force as second lieutenants. They may pursue careers in technical or non-technical specialties, or as pilots, navigators, nurses, lawyers, and doctors.

#### **The Air Force ROTC curriculum is separated into four major areas:**

1. Profession of Arms. Designed specifically for the continued development of professional knowledge and skills unique to the Air Force profession. Subject areas include officership, military law, laws of armed conflict, military customs and courtesies, and the individual's role in supporting organizational and Air Force policies.

2. **Communication Skills.** Designed specifically to enhance professional development, which is integrated throughout the AFROTC curriculum. Emphasis is on a progressive study of the various communication skills required of Air Force junior officers. The curriculum is designed to provide both instruction and application of principles and concepts in written communication, staff communication instruments, oral communication, and the nature and art of effective listening.
3. **Leadership Studies.** Designed to examine aspects of military leadership and management functions as part of the overall concept of leadership. An examination of leader variables and characteristics provides a lead-in to a protracted study of leadership theory. Leadership and management skills are developed and applied in Leadership Laboratory and cadet corps activities. Leadership training is emphasized at Field Training where team sports, military drill, and special leadership problems are mandatory.
4. **Military Studies/International Security Studies.** Designed to develop an understanding of the nature of conflict and how the United States military forces, particularly air and space forces, are developed, organized, and employed. Subjects include the need for national security, the evolution and formulation of American defense policy and strategy, regional security issues, and joint doctrine.

Credit received as a result of successfully completing Basic Military Science courses may count toward degree requirements as general free electives. All grades received for Military Science courses are included in cumulative grade point ratios.

These courses may not be available on the Vincennes University campus if there is insufficient enrollment. In that case, students may be required to travel to Indiana State University in Terre Haute or to the University of Southern Indiana in Evansville to complete the course requirements.

### **Old Post Bookstore**

The Bookstore is responsible for providing textbooks, trade books, school supplies, health and beauty aids, snack foods, and a large assortment of apparel and novelty items promoting the Vincennes University name and logo for the student population as well as faculty and staff.

The Bookstore also provides services such as a full service Post Office, fax service, and copy machine. The Bookstore also offers a check cashing service to students, faculty and staff. There is a 20 cent fee for cashing checks, up to \$100 a day; a VU ID is required.

The Bookstore can be reached by phone at 812-888-4334, by phone toll free at 866-808-2665 (book), by FAX at 812-888-5477 or web sites at <http://vubookstore.vinu.edu> for books, and <http://store.vinu.edu> for merchandise.

### **Parents and Family Services**

The Parents and Family Services program provides support to parents and families of Vincennes University students. When questions or concerns arise and you are not sure which office to contact, Parents and Family Services can help. The coordinator may be reached by phone, email, or instant message. Direct telephone numbers are 812-888-4359 (local) and 888-852-3940 (toll-free). Direct email is [parents@vinu.edu](mailto:parents@vinu.edu). Parents are encouraged to subscribe to the Vincennes University Parent List Serve at [www.vinu.edu](http://www.vinu.edu). The list serve provides an additional connection to the University.

### **Program for Adult Student Success (PASS)**

The Program for Adult Student Success (PASS) provides a transitional and supportive service to the non-traditional student population attending Vincennes University. Through a combination of individual assessment, University and community linkage, PASS assists non-traditional students with Vincennes University educational opportunities and career information, financial aid sources, and a variety of referrals to community and social agencies in a six-county area.

## **Registrar/Student Records – Veterans Affairs Office**

The Registrar/Student Records – Veterans Affairs Office is responsible for maintaining and updating student academic files. Students may contact the Registrar/Student Records – Veterans Affairs Office for the following services or for general questions concerning University academic policies and procedures: VU academic transcripts, enrollment certifications, update bio/demographic data (name, address, ID number, etc.), registration, schedule changes, graduation audits. **Veterans Affairs** assists veterans, dependents, and National Guard/Reserve students to obtain educational benefits. All of the necessary application forms are available in the office. All eligible students **must** contact this office in order to obtain benefits. Certification of attendance by this office is **mandatory** before any educational benefits can be received. The Veterans Affairs School Certifying Officials are located in the Registrar's Office in the Administration Building.

## **Residential Life**

Vincennes University offers living facilities in air-conditioned residence halls conveniently located in the heart of the campus. Residence Hall contracts have three meal plan options:

1. 19 meal plan - three meals Monday-Friday and brunch and dinner Saturday and Sunday
2. 14 meal plan - any 14 meals of the 19 meals offered
3. 10 meal plan - any 10 meals of the 19 meals offered

Six residence halls are located on the Vincennes University campus. All residence halls are tobacco and smoke free. Wireless access in public areas is available in all halls. A brief description about each hall is listed below:

**Clark Hall**, a three story residence hall received a \$10 million renovation during the 2007-08 school year. It reopened in Fall 2008 and includes suite style living consisting of 2 bedrooms for 4 students, 2 bathrooms, and shared living room. Private and handicap accessible rooms are also available. Facility features include a home theatre, computer/study areas, laundry, kitchen, recreational/entertainment areas and card access entry. It is located next to the Shake Learning Resource Center. The Housing/Residential Life office is located in Clark Hall.

**Godare Hall**, a three story residence hall, houses 400 students in double rooms. This hall will include regular visitation hours and extended visitation hours for students who meet residency requirements. Godare Hall is located near Vigo Hall, the Physical Education Complex and the new Student Recreation Center.

**Harrison Hall**, a two story brick residence hall, is an all male residence hall. This hall houses students in private and double room settings. Harrison Hall is near the Shake Learning Resource Center and other academic buildings. The Student Health Center is housed in Harrison Hall.

**Morris Hall** is a three story brick residence hall where double rooms are available. This hall includes computer/study areas and a recreation room. The hall is located next to Tecumseh Dining Center.

**Vanderburgh Hall** is an all female residence hall housing 424 students. Female students enjoy adjoining two room suites with a shared bath. This hall includes computer/study areas, recreation/TV lounge, and classroom space. The hall is located next to the new Student Recreation Center. Vanderburgh Hall includes both regular visitation and extended visitation hours for students who meet residency requirements.

**Vigo Hall** is a three story residence hall housing 412 students. Double rooms for males and private rooms for females are available. This hall houses our Learning Communities and is

located near the Physical Education Complex. The Placement, Career and Disability Services, and COPE Student Support Services offices are all located in Vigo Hall.

All unmarried students under twenty-one years of age are required to live in University residence halls when space is available unless they reside with parents or legal guardians. Military veterans are exempted from this rule.

Contact the Housing/Residential Life office at 812-888-4 225 or [www.vinu.edu](http://www.vinu.edu) future students tab for information regarding housing options and contract information.

### **Student Health Service**

The Vincennes University Health Office is located in the William Henry Harrison Residence Hall, to the left of the main lobby. The Health Office is staffed with three registered nurses and services are administered under the supervision of the University consultant physicians at the Medical Center of Vincennes.

The University nurses are available for assessment of illnesses and injuries on a ten minute appointment schedule. They may provide over-the-counter medications, initial care and follow-up care of injuries, tetanus/diphtheria injections following an injury when indicated, and tuberculin screening, as well as administration of required immunizations. The Health Office maintains student immunization records as required under the Indiana College Immunization Law.

Vincennes University, in cooperation with the Medical Center of Vincennes has developed a medical care program for students. This cooperative venture has been developed to better serve the medical needs of Vincennes University students and to help decrease the cost of medical services for students.

The medical program is included in the room and board fee for Resident Hall students. Off-campus students may enroll in the program by completing an application form and submitting the semester program fee to the VU Health Services.

Under the Vincennes University Student Medical Care Program, physician office call charges for acute problems will be covered. The student will be responsible for a \$5.00 co-payment to the Medical Center of Vincennes at the time of service. Follow-up forms are given to each student referred to physicians. These forms, completed by the physician, are to be returned to the Health Office after the appointment to be filed with the student's health record.

Vincennes University Health Service physical/immunization requirements and forms can be viewed or downloaded from the Health Office web page. Click on the "Student Services" tab at top of page, click on "Health Office" on the left side of the page, and finally click on "Forms".

**TRIO Programs.** Vincennes University's federally-funded TRIO Programs are educational opportunity outreach programs designed to motivate and support students from disadvantaged backgrounds. Vincennes University hosts six outreach and support programs targeted to serve and assist low-income, first-generation college students, and students with disabilities to progress through the academic pipeline from middle school to college programs. The secondary programs include: Educational Talent Search, Project ASPIREE and Upward Bound. The post-secondary programs include COPE Student Support Services and Veterans Upward Bound.

### **Student Transition into Education Programs (STEP)**

STEP is an academic support program providing comprehensive services for learning disabled and AD/HD students in the university mainstream. STEP is designed to help students be more successful in their college courses. Student strengths, rather than deficits, are the emphasis. Compensatory techniques, rather than remediation, are the thrust. STEP is designed to give LD and AD/HD students the opportunity to develop their own unique abilities and to achieve their highest academic potential. Students are encouraged to develop a sense of self-worth and the skills needed to function and learn independently in college. Admission to the program is based on completion of the application process, determination of student eligibility, available funding, and space remaining. Space in the program is limited and early application is important. The STEP fee is \$408 per semester. All incoming STEP students are required to major in general studies their first semester at VU.



## **University Police Department**

The Vincennes University Police Department is operated and available 24 hours a day, 365 days a year. Authority of the sworn officers is derived from State Statutes, which allow for full police powers on the Vincennes University campus. Our mission is to provide a safe and secure campus for all individuals at VU. All campus police officers undergo an extensive selection process and meet state mandated training requirements. For more information about our department and available services call 812-888-5555 or visit our web site at [www.vinu.edu/police](http://www.vinu.edu/police).

## **Student Center**

The Student Center located on the second floor of the Beckes Student Union houses the Dean of Students, Student Activities, Multicultural and International Student offices. Through partnerships and cooperative efforts, these offices work together to serve the students at Vincennes University.

### **International and Multicultural Student Affairs**

The Office of International and Multicultural Student Affairs is dedicated to developing healthy perspectives of cultural differences through educational, cultural and social programming activities. The office actively supports student organizations, offers guidance on issues related to diversity, and strives to promote and incorporate an appreciation for the multicultural nature of our society with the collective campus community.

Programs and activities sponsored and co-sponsored by the office are designed to create a campus climate that welcomes diversity, eliminates divisions, and decreases intolerance and stereotyping. Therefore, this office embraces all students and endeavors to create awareness, appreciation, action and advocacy around issues of race, gender, sexual orientation, culture, ethnicity and national origin through passive and active programs, speakers, lecture series and community service.

Clubs and Organizations affiliated with this office include:

- Black Males Initiative (BMI)
- Black Student Association (BSA)
- Embracing Latino Heritage Club
- Essence of Worship Gospel Choir
- International Club (IC)
- Muslim Student Association
- Today's Black Women (TBW)
- VU Pride (Gay – Straight Alliance)
- Women of Essence

### **Student Activities**

Students are encouraged to seek opportunities for personal development and enrichment through attendance and participation in extra-curricular programs and activities, including athletics, physical fitness, theatre productions, musical organizations, Leadership and Impact Series and student clubs. Students may take an active role in planning and promoting all campus events by becoming a member of the Campus Activities Board (CAB).

**Athletics.** Vincennes University has a well-rounded intercollegiate sports program. The University believes that sports play an important role in the overall purpose of an educational institution. The University's intercollegiate men's and women's teams are very competitive on a national level. They have won several national championships and have had numerous All-American athletes and All-American Academic Athletes on various intercollegiate teams.

**Intramural-Recreational Sports Program.** The Intramural-Recreational Sports program is designed to provide recreational opportunities for all students. Students may choose to participate in a wide variety of activities ranging from highly competitive team sports to individual and

dual sports activities with a more friendly atmosphere. Leagues, tournaments and one day meet events are structured in a way that encourages individual involvement or participation with an organized team representing a residence hall unit, social fraternity/sorority, major area or special interest club, or an independent team/organization. In addition, a co-recreational sports program is available for those individuals who wish to participate in sports activities in a relaxed social atmosphere with both males and females competing together. The development of wholesome competition through enjoyable participation in physical activities is an essential aspect of a well-rounded college education. The Intramural-Recreational Sports Program strives to fulfill that need through its variety of program offerings.

**Physical Education Complex Facilities.** Students will find facilities at the Physical Education Complex for a variety of recreational, competitive and physical fitness activities. Indoor activity facilities include a swimming pool, bowling center/snack bar with billiards and video games, racquet ball courts, dance studio, archery/martial arts room, multipurpose courts, locker/shower rooms, saunas and state-of-the-art Trailblazer Fitness Center. Outdoor facilities include tennis courts, softball fields, sand volleyball courts, and a 400 meter track.

**Donald G. Bell Student Recreation Center.** The Donald G. Bell Student Recreation Center is a state-of-the-art recreation facility that provides Vincennes University students a variety of recreation opportunities at times that are conducive to their schedules. The Center includes nearly 6,000 square feet of physical fitness equipment ranging from a wide selection of cardio equipment, to selectorized weight machines, to an extensive free weight area. The “fieldhouse” section of the Center houses a 200-meter running/jogging track plus four court areas that provide opportunities for basketball, volleyball, and tennis. The Center also includes both men’s and women’s steam rooms, equipment check-out areas, and a student lounge area.

**Cultural, Social, and Traditional Events.** The Tube Race, Homecoming, Family Weekends, Variety Shows, and the Miss Vincennes University Pageant are among the outstanding traditional events at Vincennes University.

The Alumni Office sponsors a Community Series program which features outstanding performers in various fields. The Vincennes University Theatre Department, Musical Theatre, and Summer Theatre offer a full season of student dramatic and musical productions.

The International Student Affairs office hosts a number of cultural banquets throughout the year which highlight various countries and cultures. The banquets include student involvement as well as professional entertainment.

**Student Government (SGA).** The Student Government is authorized by the Board of Trustees to service the student body by providing the means to recommend and advise the University in matters pertaining to the general welfare of students. Students are urged to take an active role in the activities of SGA. The SGA is made up of the Executive Council which is comprised of four executive officers, four commissioners and the Student Trustee who lead the SGA, two representatives from each residence hall and ten commuter representatives. These are all elected positions, with the exception of the Student Trustee and the Commissioner of Activities.

### **Clubs and Organizations**

**Academic Interest Groups.** These organizations are associated with specific fields of study and provide additional experience developed through group activities. Examples are Auto Mechanics Club and Business Professionals of America (BPA).

**National Junior College Honoraries.** National honorary societies are represented on the campus, emphasizing scholastic or outstanding work in various fields. An example is Phi Theta Kappa.

**Performing Arts Groups.** Students have the opportunity to belong to groups representing the performing arts. Many programs and productions are presented providing students with opportunity to display their talents in a live theatre situation. Examples include choir, band, drama, dance, and art.

**Special Interest Groups.** These organizations are open to students that have an interest in some special activity. Included in this category are such groups as VU Pride (Gay - Straight Alliance) and The International Student Association.

**Religious Organizations.** Campus Ministries and Christian Campus Fellowship provide the religious programming which serves all students. There are several other religious organizations that provide religious study, weekly praise and fellowship opportunities.



# Academic Information

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# General Academic Policies and Procedures

## Definitions

For the purposes of all the following academic policies and procedures, the following definitions will apply:

*Academic Advisor:* A member of the faculty or administrative staff who works with each student individually to select courses in which that student will enroll each semester, answer questions related to the student's program of study, and facilitate adherence to the University's academic policies and procedures.

*Credit Hour:* A unit of instructional credit normally associated with each class hour of lecture/discussion or each two to three class hours of laboratory/studio/clinical instruction.

*Grade Point Average (GPA):* See definitions, Evaluations and Grading System ([page 65](#)).

*Class Level Names:* Freshman, completion of 1-30 credit hours; Sophomore, 31-60 credit hours; Junior, 61-90 credit hours; Senior, 90+ credit hours.

*Curriculum (Program):* A program of study that includes courses from the student's chosen major, selected general education offerings and courses supportive of the student's major.

*Degree:* A general framework of study intended to develop the knowledge and skills required for the conferring of an academic title.

*Major:* A defined program of study. Program requirements within a major constitute at least 40% of the total credit hours required for degree completion.

*Concentration:* An area of emphasis within a major. At least 50% of the credit hours of the major program requirements of the originating program are embedded within the concentration.

## Effective Catalog

***Establishing Which Catalog Is the Effective Catalog.*** The effective catalog<sup>1</sup> for a student is the current catalog<sup>2</sup> for the first semester<sup>3</sup> for which the student has registered<sup>4</sup> for class at Vincennes University as an admitted student.<sup>5</sup> That catalog remains the effective catalog for the student unless:

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<sup>1</sup> The "effective catalog" is the catalog that establishes the requirements that a student must meet to earn a degree or certificate in the student's selected program at Vincennes University. These requirements include major course requirements and general education requirements that the student must complete; levels of attainment that the student must achieve; and tests, portfolios, and other assessment that the student must successfully accomplish. *Other areas (for example, fees, attendance policies, financial aid policies, records policies, or rules of student conduct) listed in the catalog are not set by the "effective catalog" and Vincennes University may freely change these other areas as appropriate. Course requirements that a student must meet to successfully complete an individual course are those in effect at the time the student enrolls or re-enrolls in that course.*

<sup>2</sup> The "current catalog" means either the printed or electronic catalog that governs a particular academic year beginning the first day of the Fall Semester.

<sup>3</sup> "Semester" includes Fall or Spring Semester, intersessions, and any summer session.

<sup>4</sup> A student is **not** considered "registered" for a class if the student never attends the class, if the student withdraws from the class within the first two weeks of class, or if the student is withdrawn or deregistered from the class within the first two weeks of class.

<sup>5</sup> See Requirements for Admission on [pages 7, 8 and 9](#) of this Catalog.

1. The student and the program advisor agree to make a later catalog the effective catalog with approval of the department chair, or
2. The student does not register in at least one class within a period of sixteen months. In this case, the effective catalog will be the current catalog for the first Semester for which the student is admitted and registered for class at Vincennes University after the sixteen consecutive months' absence. The program advisor and division dean may agree to extend the sixteen month period for a particular student in case of emergency or hardship, thereby allowing the student to keep the original effective catalog; or
3. The student changes programs in which case the effective catalog will be determined by agreement between the student and the advisor of the student's new program with the approval of the department chair.

***Exceptions to the Effective Catalog.*** Despite anything in the effective catalog to the contrary:

1. Changes in professional licensing or certification qualifications and standards may make changes in degree or certificate requirements for a student unavoidable.
2. Any program may establish a written policy, published in the catalog, to verify the currency of knowledge and skills of a student when a student enters or reenters the program with previous Vincennes University or transfer coursework. Under the policy, the program either may require a student whose knowledge and skills are not current to retake coursework or may deny the student admission or readmission to the program.
3. If Vincennes University cancels a program, the University has no obligation to allow a student to complete the cancelled program more than two years for any associate degree and after three years for any baccalaureate degree after last permitting students to enter that program.

### **Academic Load**

Vincennes University defines a full-time student as one who carries twelve or more credit hours during a semester. An average academic load, however, ranges from fifteen to seventeen credit hours. Certain programs require more than seventeen credit hours per semester in order for the program to be completed in two school years for any associate degree and four school years for any baccalaureate degree. In some instances, depending upon the program and the student's ability and academic background, it would be more desirable for the student to enroll in fewer hours each semester. This may require that the student either complete coursework during one or more summer sessions or plan to take more than the four-to-eight semesters normally proposed in order to complete his/her program of study. Since academic success for each of its students is a major goal of Vincennes University, it is strongly recommended that any student working full time carry no more than twelve credit hours per semester.

While the normal "maximum load" is seventeen credit hours, the student's academic advisor may approve additional hours. The student and the advisor should jointly consider the student's availability of time, academic performance, and course needs before selecting extra hours. The following standards are not mandatory, but should be considered as part of the extra hours decision: eighteen hours for a student with a grade point average (GPA) of 2.5, nineteen hours with 3.0, twenty hours with 3.5, and twenty-one hours with 4.0.

In contrast to the extra hours situation, Vincennes University **strongly** recommends that any student enrolled in one or more developmental courses should carry a reduced load. Placement into developmental courses occurs only when there is evidence that the student's academic preparation is not sufficient to warrant enrollment in a full schedule of college-level coursework. Further, the need for developmental education may require that the student enroll in more than the four-to-eight normally expected regular full-time semesters in order to complete program requirements. All required developmental hours must be completed before students may enter baccalaureate programs or begin to take 300-400 level courses.

The academic load of all students required to take 10 credit hours of -009 courses in their first semester is limited to 15 hours. Exceptions will be permitted only in majors which demonstrate the need for a specific foundations course to "keep a student in contact with his/her major."



Such exceptions must be voted upon and approved by the full Curriculum and Academic Affairs Committee. Exceptions to the 15 credit hour load will be granted to programs, not individual students, and divisions must apply for the exception using the form developed for this purpose.

### **Recentered Scholastic Aptitude Test (SAT) Scores**

Students are hereby advised that the Vincennes University catalog has been published using only recentered SAT scores. Therefore, for any students who submit the "old" SAT scores, Vincennes University will convert those "old" scores to recentered scores in order for course placements that depend upon them to be made.

### **Acceptance and Application of Transfer Credit**

#### **• Higher Education Transfer Alliance Criteria**

Vincennes University is a member of the Higher Education Transfer Alliance (HETA), a voluntary body which was created by the Council for Higher Education Accreditation (CHEA), itself a governing body in the realm of higher education accreditation. In accordance with its HETA membership, Vincennes University officials make their course transfer decisions as indicated by the following four Criteria:

1. Course content similarity is determined by the receiving department. In addition, HETA requires that Vincennes University provide to the students the reasons for accepting or not accepting courses for credit, including deficiencies of course quality, significant differences in content from the receiving institution's similarly named course(s), and, if appropriate, the lack of comparability with courses in the student's designated major. Vincennes University normally accepts credits toward completion of a degree from postsecondary institutions which are accredited for transfer by a regional accrediting association, but does not refuse courses solely because they may originate in non-regionally accredited institutions. The following are corollaries to Criterion 1:
  - a. the review process begins upon receipt of an official transcript mailed from another college or university *directly* to Vincennes University;
  - b. when transferred as "courses only," courses receiving less than a C- grade will not be accepted by the University;
  - c. when transferred as part of a completed associate degree as a qualification to enter a baccalaureate degree, the University will accept D grades unless the baccalaureate program specifically requires a minimum of a C in that course;
  - d. Only credit hours are transferred; grades do not transfer and are not calculated into the student's Vincennes University GPA;
  - e. for students transferring hours toward baccalaureate degrees, Vincennes University will accept up to 65 transfer credit hours. Additional hours may be accepted as transfer credit after consultation with the appropriate academic department;
  - f. Vincennes University reserves the right to review its own courses and all transfer courses for currency of content.
2. Vincennes University, recognizing the changes in student enrollment trends in the United States, strives to be consistent in applying its basic transfer principles to courses from all institutions in order to ensure that students are treated fairly.
3. Vincennes University will apply a higher priority to follow the success of transfer students as they take Vincennes University courses which are sequential to key transfer courses. When a trend emerges and demonstrates that a particular course from a particular institution has not adequately prepared students for these sequential courses, Vincennes University will inform both incoming students from that institution and the institution itself of its course's deficiency.
4. Vincennes University has the flexibility, within the guidance of the offering program, to accept transfer courses as reasonable course substitutes when the transfer course(s) meets learning goals similar to the required VU courses(s). The following are corollaries to Criterion 4:
  - a. when a transfer course is essentially equivalent to a Vincennes University course except for different numbers of credit hours, Vincennes University may accept the

- b. hours not applied to a specific course as departmental undistributed elective hours;
  - c. the division dean of the course may authorize the waiver of a required course when more than half of the hours of the individual Vincennes University course are being accepted as undistributed elective transfer hours.
- **Indiana's Core Transfer Library**

Indiana's Core Transfer Library (CTL) is a listing of courses that will transfer to all Indiana public college and university campuses in one of two ways: 1) the CTL course will receive credit for the designated equivalent course at the transfer campus and meet the transfer campus degree program requirements in an equivalent manner, or 2) if there is no agreed-upon directly equivalent course, the CTL course will transfer as an elective requirement of the undergraduate degree program provided the program has room for elective credits. CTL transferability is contingent upon a student earning a C grade or higher in the transfer course. These courses are indicated in the Vincennes University catalog and schedule with the transferIN attribute.\* For more information on the CTL and a listing of current CTL courses, go to <http://www.vinu.edu> and click on the Academic Resources tab.

\*Courses that do not have the *transferIN* designation will fall into one of the following categories: (1) will transfer to most Indiana public institutions; (2) will transfer to some Indiana public institutions; (3) will transfer to only one or two Indiana public institutions; (4) is not a transfer course. Contact your advisor or transfer institution to determine applicability for any course you wish to transfer.

### **Earning Credit Through Standardized Testing**

In addition to transfer credit, students achieving the required minimum score may also earn academic credit from CLEP general examinations or subject examinations; USAFI, ECE or DANTES courses or tests; service school courses and military science credits in accordance with the *ACE Guide* and College Board Advanced Placement Program.

- ***College Level Examination Program (CLEP)***. Vincennes University is an approved CLEP Testing Center. CLEP is the most widely accepted credit-by-examination program in the country with more than 2,800 accredited institutions of higher education awarding credit for satisfactory scores on CLEP examinations. CLEP offers General Examinations in broad liberal arts areas and Subject Examinations in many specific subjects, such as accounting, biology, mathematics, psychology, and foreign languages. CLEP tests are administered by the Assessment Center at Vincennes University.
- ***DANTES Subject Standardized Tests (DSST)***. Vincennes University serves as a test center for DANTES Subject Standardized Tests. The Defense Activity for Non-traditional Education Support (DANTES) has made it possible for non-military personnel to utilize this testing service. Individuals who take and pass a DANTES test are entitled to request college credit for the course represented by the exam. Students seeking information about DANTES testing should contact the Military Education Office. DANTES tests are administered by the Assessment Center at Vincennes University.
- ***Excelsior College Examinations (ECE)***. These examinations are offered by Excelsior College (formerly Regents College). The exams were formerly known as ACT PEP (American College Testing Proficiency Examination Program) and Regents College exams.
- ***College Board Advanced Placement Program***. Vincennes University participates in the College Board Advanced Placement Program. Students must arrange for the Advanced Placement College Grade Report to be sent to the Office of Admissions at Vincennes University. Students should contact the respective departments, the Office of Admissions or the Office of the Registrar for minimum acceptable scores in the various subject areas beyond those listed below.

<i>College Board AP Test</i>	<i>Score</i>	<i>V.U. Credit</i>
<b><i>Division of Social Science</i></b>		
<b>Economics</b>		
	3, 4 or 5	ECON 201
	3, 4 or 5	ECON 202
<b>History/Government</b>		
	3 H	IST 139
	4-5	HIST 139 and HIST 140
	3 H	IST 131
	4-5	HIST 131 and HIST 132
	3, 4 or 5	POLS 111
<b>Psychology</b>		
	3, 4 or 5	PSYC 142
<b><i>Division of Humanities</i></b>		
<b>Art</b>		
General Portfolio	3, 4 or 5	3 hours undesignated ARTT elective credit
<b>English</b>		
Language and Composition	3, 4 or 5	3 hours undesignated ENGL credit
Literature and Composition	3, 4 or 5	3 hours undesignated LITR or ENGL credit
<b>Foreign Language</b>		
French	2	FREN 101
French	3, 4 or 5	FREN 101 and 103
German	2	GRMN 101
German	3, 4 or 5	GRMN 101 and 103
Spanish	2	SPAN 101
Spanish	3, 4 or 5	SPAN 101 and 103
<b><i>Division of Science and Mathematics</i></b>		
<b>Chemistry</b>		
4		CHEM/CHML 105
	5	CHEM/CHML 105 and CHEM/CHML 106
<b>Mathematics</b>		
AB	3	MATH 115
AB	4-5	MATH 118
BC	3	MATH 118 or MATH 115 and MATH 116
BC	4-5	MATH 118 and MATH 119
<b>Life Science</b>		
4		LFSC/LFSL 105
	5	LFSC/LFSL 105 and LFSC/LFSL 106
<b>Physics</b>		
CB Mechanics	5	PHYS 205
C Electricity and Magnetism	5	PHYS/PHYL 206
B	4	PHYS/PHYL 105
B	5	PHYS/PHYL 105 and PHYS/PHYL 106

- Departmental Exams.*** Advanced placement in certain courses is granted on the basis of department examinations. Only a grade of *Cr* (credit) may be awarded to a student who establishes advanced placement credit. Students will not be assessed tuition charges for credit earned by advanced placement. Students are not exempt from general education requirements based on national standardized achievement test scores (SAT, ACT) or placement exam scores, such as CPT, COMPASS, or ASSET.

Students *who place in and complete the following courses* with the grades indicated will receive the corresponding departmental advanced placement credit. Students planning to transfer should check with the baccalaureate institution regarding its policies for accepting advanced placement credit.

Course Number	Grade	Departmental Advanced Placement Credit
<b>Business</b> <sup>1</sup> ACCT 112	C or better	3 hours of ACCT 111
<b>Foreign Languages</b> <sup>2</sup> ASLG 103 ASLG 201 FREN, GRMN or SPAN 103 FREN, GRMN or SPAN 201 or above	C or better C or better C or better C or better	5 hours of ASLG 101 5 hours of ASLG 101 and 5 hours of ASLG 103 4 hours of FREN/GRMN/SPAN 101 4 hours of FREN/GRMN/SPAN 101 and 4 hours of FREN/GRMN/SPAN 103
<b>Chemistry</b> <sup>3</sup> CHEM 106 and CHML 106 CHEM 215 and CHML 215	C or better C or better	3 hours of CHEM 105 and 2 hours of CHML 105 3 hours of CHEM 105, 2 hours of CHML 105, 3 hours of CHEM 106 and 2 hours of CHML 106
<b>Mathematics</b> MATH 102 MATH 111 MATH 115 MATH 119 MATT 106 MATT 107	C or better C or better C or better C or better C or better C or better	3 hours of MATH 101 3 hours of MATH 101 3 hours of MATH 102 5 hours of MATH 118 3 hours of MATT 105 3 hours of MATT 106
<b>Physics</b> PHYS 106 and PHYL 106	C or better	4 hours of PHYS 105 and 1 hour of PHYL 105

### Early Completion Credit

Students seeking early completion credit are to enroll in the course with the regular tuition and fee charges. Laboratory fees will be refunded if early completion is accomplished by the close of the semester's drop and add period. Students seeking early completion credit must fill out the appropriate form which originates with the dean of the division offering the course. Students must request early completion by midterm week. Students may elect to do early completion for a grade of *A*, *B* or *C* or if unsuccessful they must remain in the course.

The early completion credit option is available only to students who are enrolled in at least one other non-early completion credit course. Early completion may not be used to replace a grade previously achieved in the course. The maximum number of hours in which a student may receive early completion credit is eighteen.

The assigned material for early completion credit will be approved by the department or program chairperson and by the division dean. The completed and evaluated student assignments will be filed in the appropriate division office.

### Credit by Examination/Business Courses

The Division of Business and Public Service offers students who have graduated from high schools that have articulation agreements with Vincennes University or have validated course competencies the option to take the Business departmental examinations to establish *Credit by Examination* in selected introductory level business courses. These articulation agreements must be based upon certification of specific course competencies agreed upon mutually by appropriate representatives of the University and the high school. A grade of *Cr* (Credit) will be awarded in applicable courses to students who (1) meet the required competencies as demonstrated by successful completion of the appropriate departmental examination(s) and (2) require no remediation.

<sup>1</sup> The Division of Business offers students who have graduated from high schools that have articulation agreements with Vincennes University or have validated course competencies the option to enroll in "Advanced Placement" classes in selected introductory courses. Enrolling students must (1) meet the required course competencies, (2) require no remediation in their particular program and (3) complete the advanced class with a grade of *C* or greater.

<sup>2</sup> No extra credit will be granted if the foreign language course grade is less than *C*. Extra credit through advanced placement will be granted only one time per language to any one student. Departmental examinations will be administered to determine placement.

<sup>3</sup> Department standards in the form of an examination prepared by the chemistry faculty are used for placement. Advanced placement credit will not be granted if the sequential course in chemistry is completed with a grade of less than *C*.

tion. An examination fee of \$15 per course credit hour will be assessed to the student regardless of whether credit is established.

Students who prefer to meet the criteria for traditional course letter grades rather than grades of *Cr* should consider the options of Early Completion or regular course enrollment.

### **Non-collegiate Certification Credit**

Vincennes University recognizes that persons may acquire significant learning in non-collegiate settings. Often these persons possess sufficient knowledge that specialized certifications have been earned. In some instances this learning and knowledge may be recognized and corresponding collegiate credits may be awarded when specific competencies and proficiencies are documented and/or demonstrated.

### **Honors Program**

The Honors Program provides opportunities for multi-talented scholars that are not available to the average student. This includes honors program advising, honors only courses, pre-professional activities, honors designation on transcript, and special housing options for A.S., A.A., or A.A.S. degree seeking students.

Students who wish to pursue the Honors Program may apply as follows:

#### ***Option 1 – For U.S. Students***

- Have a minimum SAT score of at least 530 in both writing and verbal or a minimum ACT score of 23
- Complete and submit the Honors Program application form: [www.vinu.edu/honors](http://www.vinu.edu/honors)

#### ***Option 2—For Transfer Students and those already enrolled at VU***

- Complete 12 hours of quality college-level course work
- Hold a minimum cumulative grade point average of 3.3
- Hold a minimum grade of *B* in either ENGL 101 or ENGL 112 (or equivalency)
- Complete and submit the Honors Program application form: [www.vinu.edu/honors](http://www.vinu.edu/honors)

#### ***Option 3—For International Students***

- Have a minimum TOEFL score of 528
- Complete and submit the Honors Program application form: [www.vinu.edu/honors](http://www.vinu.edu/honors)
- Achieve a minimum of 93 on the Reading portion of the CPTS placement test\*
- Achieve a minimum of 120 on the English portion of the CPTS placement test\*
- Achieve a minimum of 53 on the Math portion of the CPTS placement test\*

*\*This test is provided upon arrival at VU.*

To remain in good standing with the Honors Program and make progress toward graduation, students will be required to be enrolled in an Honors Program course each semester and to maintain an overall grade point average of *B* (3.0).

#### ***Honors Program Courses***

- *HUMH 221 and HUMH 222 Honors Humanities I and II* (6 hours)  
*These two courses will fulfill the Comp II requirement as well as the Humanities elective requirement in the Humanities Common Core for General Education.*
- *SOCH 211 Honors Contemporary Civilization* (3 hours)  
*This course will fulfill the Social Science elective requirement for 3 credit hours in the Liberal Education Core. This course can satisfy the Diverse Cultures/Global Perspectives requirement for the baccalaureate degree..*
- *Honors Special Topics Course* (1 to 3 credit hours)

To graduate with the Honors Program designation on their transcript, students will be required to meet the following criteria:

- successfully complete all required Honors courses with a *C* or better grade,
- meet all academic program requirements for the major, and
- possess a *B+* overall grade point average (3.3).

## Developmental Studies Program

The Developmental Studies Program is designed for students who need additional preparation before entering a full associate or baccalaureate degree program. It provides students the opportunity to take developmental courses that help improve reading, writing, speaking, math and study skills. Completion of developmental coursework with a grade of C or better promotes the greatest chance for successful completion of college-level coursework.

Developmental courses all have a course number under 100. **Developmental course credits are not included in graduation requirements that count toward any degree or certificate.** Placement in developmental courses is based on a combination of SAT and institutional test scores. Some students may only need to improve their skills in one area; others may require one or more semesters of developmental courses. In some situations, college-level coursework can be taken during the same semester in which the student is enrolled in developmental coursework.

Institutional credit granted for developmental courses will not satisfy general education requirements, nor do such courses fulfill graduation requirements. Grades and credit hours earned in developmental courses are not included in the computation of GPA.

Students enrolled in developmental studies must have met the established minimum requirements after two semesters of enrollment in a developmental studies course. Students who fail to meet the minimum requirements will be ineligible to continue in an associate degree program. Requests for exceptions to this policy should be directed to the Dean of Students.

All students whose placement indicates the need for developmental classes are required to enroll in developmental classes each semester until developmental requirements are satisfied. ***Students must successfully complete institutionally required developmental courses prior to being eligible for an associate degree or admission to a baccalaureate degree.***

***Protected courses*** have prerequisites that require students to complete certain academic requirements before enrolling in college level courses. Enrollment in ***protected courses*** is open only to students who are able to demonstrate appropriate academic skill levels, either through placement test scores or completion of the prescribed courses. ***Protected courses*** have prerequisites, corequisites, and recommended classes to ensure that students have sufficient hours to maintain full-time status and that students have a better chance of success when they enroll in college level courses. Protected courses are indicated in the course description section of this catalog with a §. A complete list of protected courses and information regarding departmental basic skills requirements is available from the Director of Developmental Education.

The term "successful completion" will be used to establish levels of prerequisite accomplishments for enrollment in courses. As used in the catalog, **"successful completion" is defined as having earned a grade of C or better in the prerequisite course.**

## Change of Curriculum

A student may change his/her curriculum by obtaining the appropriate form from his/her academic advisor, obtaining the signatures requested on the form, and filing the change with the Registrar's Office. While it is the student's right to request a change in curriculum, if the proposed change of curriculum seems contrary to the student's best interests, a committee composed of the Dean of Students, the Registrar, and division dean of the student's proposed new curriculum may be called upon to make the final decision regarding the proposed change.

Once the student begins his/her new program, the academic advisor of the new curriculum can request that the student's grade point average be recalculated excluding D and F grades earned in courses which do not apply to the new curriculum. If the student was on probation in the previous curriculum, the student will enter the new curriculum on probation.

## Dropping and Adding Classes

A student should check both course requirements for his/her curriculum and his/her financial aid status before dropping any class. Class with draws are not permitted in some required courses. Drop and Add forms may be obtained from the student's academic advisor.

The fifth day of classes will be the last day the student may enroll or make changes in registration without official approval. After the fifth day of class, the student will not be allowed to change his/her class schedule by adding classes or changing course sections except within the following situations:

1. A student who has completed registration with a conflict in time between classes. A conflict would occur when two or more of a student's classes meet for any part of an hour simultaneously.
2. A verified change in a student's off-campus work schedule that causes a conflict with a class.
3. A change in the student's major or educational goal as confirmed and recommended by the academic advisor.
4. A change in a student's schedule by a department or division representative caused by advanced placement or early completion.

All exceptions must be approved by the appropriate faculty member, division dean, and Registrar. A student who changes status from a full-time student (twelve or more credit hours in a semester) to a part-time student must have the approval of the Dean of Students.

### **Transcripts**

A transcript of a student's academic record at Vincennes University is available upon the student's written request to the Registrar's Office. Any transcript issued directly to the student will be marked as such and will be considered unofficial. Official transcripts are those requested in writing by the student, marked with the official seal of the University Registrar, and sent *directly* by the Registrar's Office to other universities, certification agencies, employers, etc.

### **Attendance Policy**

***Philosophy of Attendance.*** The Vincennes University policy is premised upon the notion that students will attend all sessions of the classes in which they are enrolled. This policy supports Vincennes University's philosophy that students benefit most from the people and facilities provided by the citizens of Indiana through proper and adequate class attendance. Consequently, missing class for any reason will be regarded as an absence. When absences result from an approved and required University activity, they will not be counted against a student, and the work missed may be made up.

Vincennes University believes that students who participate in University-sponsored activities and faculty-developed field trips must develop habits of attendance consistent with such participation, or voluntarily refrain from such participation. *For whatever reason an absence occurs, the student is responsible for the work missed.*

***Procedures for Verification of Absences by Students.*** In most cases, absences which occur as the result of participation in a University-sponsored event--for example, intercollegiate sporting events--need no verification provided by the student. Usually, professors who develop field trips that require students to miss the classes of other faculty members will inform the Dean of Students of that event, the names of students involved, and the names of the professors (as provided to the sponsoring faculty person by the students), whose classes will be missed, and the Dean of Students will send an official notice to all professors on the listing. However, it is always to the students' benefit to make certain that their professors are aware of their participation in University-sponsored events or course-related field trips. When a student misses class for some reason other than a University-sponsored or course-related event, the responsibility to provide verification to the Dean of Students' Office falls directly and solely upon the student.

1. Upon his/her return to classes, the student must complete an **Absence** form, available at the Office of the Dean of Students. At that time, the student must provide verification of the reason for absences such as illness treated by an off-campus physician, a court appearance, a death in the family, among other possible situations. (Verification means to document that the reason is true by providing evidence.)
2. Any student who visits the campus nurse as part of a limited illness must fill out an Absence form as part of that visit if an absence is advised by the nurse. The University Health Services personnel are the *only* University staff authorized to offer verification of a student's illness.

3. Students who wish to make-up work (tests, quizzes, laboratory sessions, paper submissions, among others) missed as the consequence of a non-University caused absence must complete a **Request for Make-up Privilege** form at the Office of the Dean of Students. The final decision in this matter is made by the faculty person.

### **Faculty-Initiated Withdrawal of Students from Class**

Students who miss class hours totaling twice the number of credit hours awarded for the course, or the equivalent of two weeks of class instruction, are eligible to be dropped from class. The faculty member may initiate the withdrawal by filling out a Drop for Non-Attendance form. The Dean of Students notifies students when they have been dropped from class and of their right to appeal. Only the student may appeal such a drop for non-attendance, and the student has two possible avenues for appeal.

1. The student may appeal directly to the faculty person for readmission to the course and must provide evidence of extenuating circumstances that caused the absences. The faculty person has the option to readmit the student without a formal appeal hearing.
2. The student may appeal the drop for attendance at the Dean of Students' Office by completing a Drop Petition Appeal form. The Dean of Students will then convene a hearing for the appeal at which readmission will be granted or denied. If there is extenuating information/evidence unknown to the faculty person or Dean of Students, the student is responsible to provide that information/evidence. The hearing is conducted by the Dean or Assistant Dean of Students and is attended by the student, the faculty person involved, and the faculty person's Dean or a representative of that Dean.

### **Student-Initiated Withdrawal from Class**

Approved withdrawals that are initiated by the student may be made up to and including Friday of the tenth calendar week of each fall or spring semester. (This date may be adjusted for terms less than fifteen weeks in length. See Academic Calendar for exact dates.) Student-initiated withdrawals will not be permitted after these dates except in case of extended illness, family emergency or other such unavoidable causes and then only with the consent of the class instructor, the student's academic advisor and the dean of the division of the student's major. The approved Drop and Add form is filed with the Registrar. Unless the student is failing the class, the student-initiated withdrawal from class will be recorded on the transcript as a *W*. If a student who is failing the course is dropped for non-attendance prior to two weeks before the end of the semester, the faculty may assign the grade of *WF*.

Students are to be aware of their responsibility for making withdrawal decisions in time to meet calendar deadlines. Students should also be aware that withdrawals requested after these deadlines to avoid lower than desired course grades will not be considered.

### **Withdrawal from School**

A student who voluntarily withdraws from the University must, in order to receive an honorable dismissal, notify the Dean of Students of his/her intention by completing a withdrawal card available in the Dean of Students' Office. Failure to conform to this regulation will result in the loss of credit in all subjects. The Dean of Students' Office will notify instructors when withdrawal procedures are complete. The University withdrawal refund policy is outlined on [page 25](#) in this catalog.

A student may be withdrawn from the University for medical reasons if he/she cannot psychologically function in the educational environment or has a contagious illness which cannot adequately be isolated in the educational environment.

The University reserves the right to deny continued enrollment if the student is failing to make academic progress. Also, the University may deny admission or continued enrollment if the University does not have the resources to meet the academic needs of the student.



## Evaluation and Grading System

### Definitions

For the purposes of all the following academic policies, the following definitions will apply:

*Attempted Hours:* All credit hours, including developmental courses, into which a student has registered as of the conclusion of the Drop and Add period. This category, therefore, includes all courses in which the student may earn any grade issued by the University.

*Earned Hours:* Those credit hours in which a student has registered and in which grades of A, A-, B+, B, B-, C+, C, D, P, or CR have been earned. (In those cases where students repeat a course for recalculation of grade point average, the highest grade earned will be used to calculate the grade point average.) Developmental courses are included in *earned hours*.

*Quality Hours:* All attempted hours, excluding developmental courses, in which a student earns a grade of A, A-, B+, B, B-, C+, C, D, F, or WF. (This total represents the divisor for determining the grade point average.)

*Quality Points:* The sum of the products obtained by multiplying the number of credit hours for each course in which the student has enrolled and for which quality hours have been earned by the multipliers that correspond to grades earned using A = 4.0, A- = 3.7, B+ = 3.3, B = 3.0, B- = 2.7, C+ = 2.3, C = 2.0, D = 1.0, F = 0 and WF = 0. (This total represents the dividend for determining the grade point average.)

*Grade Point Average (GPA):* The quotient obtained by dividing quality points earned by the number of quality hours completed. (Note: Grades and credit hours earned in developmental courses are not included in the computation of GPA.)

### Grading System

The quality of a student's work is indicated by the semester grades reported by the instructors to the Registrar at the close of each term as follows: A and A- represent work of excellent quality; B+, B and B- represent work above average; C+ and C represent average work; D represents below average and non-transfer quality; and F represents not passing.

For the purpose of calculating a student's grade point average and determining eligibility for the Dean's List and honors at commencement, the following points are assigned for each hour of credit earned with the corresponding grades: A = 4.0 points, A- = 3.7 points, B+ = 3.3 points, B = 3.0 points, B- = 2.7 points, C+ = 2.3 points, C = 2.0 points, D = 1.0 point, and F = no points.

The grade CR (*credit*) represents course work completed at a C level or above. This grade may be awarded for advanced placement, experience-based learning documented through portfolio development, and certain special courses offered through the military education program. A grade of CR earned through enrollment in a Vincennes University course will remove from the calculation of the grade point average a D or F grade earned through previous enrollment in that same course, although no quality points will be assigned to the CR grade.

In modularized, self-paced courses, the grade of DE (*Deferred*) may be assigned to those students who do not complete their course work in one semester. This grade will be assigned only to those students who attend class on a regular basis and as such does not replace either the W or I which will be issued as described in the following paragraphs. Students who received the deferred grade must re-enroll in the same course the following semester in order to complete the course. Such course re-enrollments will be counted as part of the student's tuition assessment. The DE will remain as part of the student's permanent record with credit and grade being granted during the semester in which the student completes the course.

An *Incomplete (I)* grade may be given in cases where the final examination is omitted or assignments for the last few weeks of the semester are incomplete because of illness or for a cause judged unavoidable. Incomplete grades given for this purpose must be cleared with the appropriate division dean or the Dean of Students before being issued by the faculty. These in-

complete grades must be made up by midterm of the following semester, or the *I* automatically becomes a *W* and the student must re-enroll and pass the course to establish credit. An extension of time to complete the required work may be requested by the faculty and authorized by the appropriate division dean who will in turn notify the Registrar.

The *RD* (*report delayed*) grade may be issued as an interim course grade in those areas where it is not possible to assign course grades at the normal grade reporting period. This grade may be used as a semester-end grade for courses that are approved for open-entry, open-exit enrollment and completion, such as Degree Completion Program courses. This grade will not be used to permit the extension of work beyond a semester's end in any course that has prescribed beginning and ending dates.

A *W* (*withdrawn with passing grade*) is recorded when a student is withdrawn within the first ten weeks of the semester or if extenuating circumstances exist and the previously mentioned approval has been granted. When a *W* is recorded for a course, that course is not included in calculating the grade point average.

If a student who is failing a course is dropped from that course for reason of non-attendance prior to two weeks before the end of the last regularly scheduled class period, the faculty may assign the grade of *withdrawn failing, WF*. If a student who is *not* failing a course is dropped from that course for reason of non-attendance prior to two weeks before the end of the last regularly scheduled class period, the faculty may assign the grade of *withdrawn not failing, WN*.

Occasionally circumstances may warrant changing a grade after it has been issued. Requests for grade changes must be submitted to the appropriate division or area dean.

A student may enroll on a *pass-fail (P/F)* basis in any University course which is not required on his/her specific curriculum. Therefore, only those courses beyond the minimum number of credit hours required for the degree in which the student is enrolled may be taken on a *pass-fail (P/F)* basis. The student's pass-fail contract with the instructor is binding as of the close of the semester's drop and add period. Pass is defined as a grade of *C* or above. The passed and/or failed credit hours are recorded on the student's transcript, but the pass grade (*P*) does not affect the student's semester or accumulative grade point average.

Any credit course offered by the University may be taken for *audit (AU)*. Students wishing to audit a course must notify their instructor no later than the end of the first week of the class and must complete an Enrollment for Audit form which the instructor and the student will sign and which will be kept on file in the Registrar's Office. Formalized enrollments for audit are not reversible later to enrollments for credit. Students wishing to audit courses must meet the same admissions standards to the institution, the program and the individual course and adhere to the same class attendance policies as regularly enrolled students. Costs for enrolling in courses for audit are the same as those for enrolling for credit. Audited courses do not apply toward the requirements of any degree. The University reserves the right to give priority course enrollment status to students enrolling for credit.

### **Final Examinations**

Final examinations are given at the end of each semester. A schedule of final examination dates and times will be published each semester. Because the schedule of final examinations may vary from the semester's class schedules, students may find it necessary to adjust their personal schedules in order to meet their class final examination responsibilities.

Students are not expected to complete more than three course final examinations on any one day. If the published schedule calls for any students to complete more than three final examinations on any one day, the student should notify the dean of the division of his/her major to arrange for an exception to the final exam schedule.

### **Dean's List**

All students earning a semester grade point average of 3.50 or higher while completing at least twelve credit hours in 100-level or higher courses, with no grade of *D*, *F*, *CR*, *P*, *I*, *RD* or *Z* are placed on Dean's List. This list is published after the close of both the fall and spring semesters.

## **Standards of Progress**

Students enrolled at Vincennes University are expected to make progress toward an acceptable educational objective. Students who fail to complete at least 60% of their attempted course hours or have a cumulative GPA less than 1.80 in their first academic year will be placed on academic probation unless there are extenuating circumstances. Students on academic probation, whether for a low cumulative GPA or a lower than 60% completion rate must complete 100% of all attempted hours – quality or developmental – in the following semester or be subject to a “Standards of Progress Review” and academic disqualification at the end of each subsequent semester.

The “Standards of Progress Review” will be carried out by the Assistant Provost for Academic Affairs, the Dean of Students, and the Registrar. The Review requires those failing to make acceptable progress to show just cause. If sufficient reason is not presented, the individual will be withdrawn. While this policy is intended to be used primarily at end-of-semester grading periods, in some extreme cases, it may be applied following midterm grading periods.

## **Academic Probation**

Vincennes University is committed to the academic success of all students. Our goal is to assist all students to achieve a minimum of a 2.0 GPA during each semester of attendance. However, full-time and part-time students must maintain a 1.80 cumulative grade point average for up to and including thirty quality credit hours or be placed on academic probation. Thereafter, students must maintain a 1.90 cumulative GPA for credit hours ranging from 31 up to and including 45 credit hours. For all credit hours 46 and above through the completion of **either an associate or baccalaureate degree**, students must maintain a 2.0 cumulative GPA.

The semester in which the grades below probationary standards are earned will be counted as the first semester of academic probation. Students placed on academic probation for two consecutive semesters of attendance will be placed on the academically disqualified list (outlist/dropped from school). After one non-enrolled semester, students may apply for readmission at the discretion of the University. Students on probation for two consecutive semesters of attendance who wish to change their major curriculum may, however, petition to be reinstated for the following semester. In such cases, they must achieve a semester grade point average consistent with the guidelines above in their first semester on their new curriculum or they will again be placed on the academically disqualified list.

Students who achieve a 2.0 semester grade point average while enrolled in seven or more quality hours in their most recent semester of attendance, but whose overall grade point or serial probation might otherwise qualify them for the “outlist,” will not be declared academically disqualified because of this policy. All students should be cognizant of the fact that these standards of probation and academic disqualification apply to both associate degree and baccalaureate degree-seeking students.

## **Warning Status**

Any student whose cumulative grade point average is below a 2.0 but who is not on academic probation will be placed on academic warning status. Students in this category must be aware that their academic achievement to that time is not sufficient to qualify them for any of the degrees or certificates conferred by the University. Further, students in this category are at risk of falling below the academic probation standards should their work continue at below average levels.

## **Repeating Courses for Recalculation of Grade Point Average**

Any student may repeat any course previously completed regardless of grade earned. While all grades earned will remain a part of the student's permanent record, only the higher (highest) grade will be used to calculate the student's grade point average. A student who has already repeated a course shall have his/her GPA recalculated to reflect the higher (highest) grade earned. A W does not replace a previously earned grade. The probation and academic disqualification status will remain unchanged, but future academic status will be based on the revised GPA computed after the course has been repeated.

## Degree and Certificate Requirements for Graduation

*Each student is responsible for successfully resolving, within the University guidelines, the requirements for the major and degree or certificate desired. Students must successfully complete institutionally required developmental courses prior to being eligible for a degree.*

### Degrees Offered

Vincennes University confers the degrees of Bachelor of Arts, Bachelor of Science, Associate in Arts, Associate in Science, and Associate in Applied Science.

- **The Bachelor of Arts (B. A.) and the Bachelor of Science ( B.S.) Degrees** are intended to prepare students for both job placement and/or graduate school. One component of the B.A. degree is an eight-hour foreign language requirement. Not all B.S. degrees include a foreign language component. To qualify for any of the baccalaureate degrees, a student must accumulate at least 124 credit hours, with a minimum of 36 credit hours in upper division (300-400 level) discipline and discipline-related courses, including a 300-level Human Issues and Dilemmas course and a 400-level Capstone course. In addition, all students must satisfy the baccalaureate-level general education requirements.
- **The Associate of Arts (A.A.) and the Associate of Science (A.S.) Degrees** are intended primarily for students wanting to transfer to a baccalaureate degree program. One component of the A.A. degree is an eight-hour foreign language requirement. The A.S. degree serves as both a transfer or an occupational degree. Students receiving this degree do not have a foreign language requirement. The Associate of Applied Science (A.A.S.) degree is designed primarily for students who intend to enter the world of work after completing their degree. It does not have a foreign language requirement. To qualify for any of the associate degrees, a student must accumulate at least sixty-two credit hours as outlined in the program pages of the catalog. In order to receive a degree in a particular major course of study, the number of required hours may exceed sixty-two. In addition, all such students must satisfy the associate degree general education requirements.

### Certificates Offered

In addition to baccalaureate and associate degrees, the University offers four certificates. Two of these, the Certificate of Graduation and the Certificate of Program Completion, are based to some extent on programs of study. The remaining two certificates are the Customized Certificate of Applied Learning and the Technical Certificate for Business and Industry Training. These Certificates develop specific work-related skills and prepare students for employment.

#### **Certificate of Graduation**

- To qualify for the Certificate of Graduation, a student must complete the specific certificate curriculum included in the Programs of Study section of this catalog. These certificate programs consist of at least two semesters (thirty or more credit hours) but fewer than sixty-nine credit hours. In addition, the student must maintain a minimum cumulative grade point average of 2.0 in all credit hours required by the certificate's curriculum.
- The student must satisfy the University's minimal requirements through placement testing or completion of READ 011, ENGL 009, and MATH 011 or MATT 103, 105, or 109 with a grade of C or better.
- The student is responsible for completing general education coursework included in the specific certificate curriculum. Any General Education Basic Skills course work (ENGL 101 or 112; SPCH 140, 143, or 148; MATH 101 or higher, or MATT 103 or higher) must be completed with a "C" or higher.
- All Certificate of Graduation curricula include the following general education minimum hourly requirements:
  - Programs of 30-39 total hours: minimum of 6 hours of general education.
  - Programs of 40-49 total hours: minimum of 9 hours of general education.
  - Programs of 50-59 total hours: minimum of 12 hours of general education.
  - Programs of 60-69 total hours: minimum of 15 hours of general education.\*

### ***Certificate of Program Completion***

- To qualify for a Certificate of Program Completion, the student must complete the specific certificate curriculum listed in the Programs of Study section of the catalog. Such certificates consist of fewer than thirty credit hours, and the student must maintain a minimum cumulative grade point average of 2.0 in all credit hours required in the certificate.
- In addition, the student must satisfy the University's minimal requirements through placement testing or completion of READ 011, ENGL 009, and MATH 011 or MATT 103, 105, or 109 with a grade of C or better. Ideally, all Certificates of Program Completion will include at least one General Education Basic Skills communications course (ENGL 101 or 112, SPCH 140, 143, or 148) and any relevant Basic Skills math (MATH 101 or higher, or MATT 103 or higher) or General Education science courses.\*

**\*Note:** The general education expectations described above do not apply to customized Certificates of Completion or certificate curricula restricted by state, national, or professional guidelines, or certificates that do not have pre-associate degree potential.

### ***Customized Certificate of Applied Learning and Technical Certificate for Business and Industry Training***

- To serve the needs of employers and employees who are seeking specialized training related to a specific field of work, the University provides training tailored to meet the specific needs of those employers and employees.
- To qualify for a Customized Certificate of Applied Learning, the student must complete his/her specific set of training needs configured with twenty-nine or fewer credit hours.
- To qualify for a Technical Certificate for Business and Industry Training, the student must complete a specific set of courses tailored to meet specific business or industry needs and configured with at least thirty credit hours. Such programs must be approved by the Indiana Commission for Higher Education.
- Because of the applied nature of these certificates, they are offered with the understanding that credits may not transfer to other programs or institutions.

### **Degrees Awarded with Honors**

Vincennes University recognizes academic excellence of its students by awarding both associate and baccalaureate degrees with three levels of honors based on overall grade point average: Cum Laude (3.50-3.69), Magna Cum Laude (3.70-3.89) and Summa Cum Laude (3.90-4.00). In order to be eligible for such graduation honors, non-military students must complete at least thirty semester hours of Vincennes University course credits, which equals the minimum residency requirement, with the prescribed grade point averages. Students covered by various military agreements must complete at least fifteen semester hours of Vincennes University course credits with the prescribed grade point averages to be eligible for degree honors.

Any University area, department, or division may recognize its students in any manner it deems appropriate during the graduation honor convocations for Freshman, Sophomore, Junior, and Senior students.

### **Awarding of Additional Degrees**

Vincennes University awards degrees only in major programs. Options of major programs may provide opportunities for students to complete additional degrees or concentrations, according to the policies which follow:

Vincennes University will award only one degree based upon any unique set of courses and course credits. Additional degrees may be earned through use part of the course credits applied to previous degrees. The most common form of additional degree awards occurs in the form of the Double Major. The "double major" usually involves the concurrent award of two separate degrees (e.g., a student may earn a "double major" in English and History). In this instance, the degree will be awarded only where there are at least fifteen (15) credit hours of required major courses, including departmental and/or program requirements and exclusive of any course substitutions, in the additional degree that are over and above those required in the companion degree of the double major.

A variation of the “concurrent award of the double major” is the subsequent award of an Upgraded Degree, i.e. from the A.A.S. to the A.S. or A.A. in the same major discipline (e.g. the A.A.S. to the A.S. in Construction Technology). The University will not concurrently award both the A.A.S. and the A.S./A.A. in the major discipline. In a manner similar to the double major, the “upgraded degree,” the A.S./A.A., will be awarded only in those instances where there are at least six (6) additional credit hours in either departmental/program requirements or general requirements beyond those required in the previous A.A.S. degree. Any credit hours required for the upgrade from the A.A.S. to the A.S./A.A. degree must be taken at Vincennes University.

### **Requirements for Graduation**

- In order to graduate, all students, whether baccalaureate or associate degree level, must achieve a minimum 2.0 cumulative GPA (C average) exclusive of hours marked W (Withdrawal) and developmental courses. In order to receive a degree in a particular major course of study, the number of required hours may exceed sixty-two.
- Credits toward graduation will be accepted from accredited transfer institutions of higher education; CLEP general examinations or subject examinations; USAFI, ECE, or DANTES courses or tests; service school courses and military science credits in accordance with the *ACE Guide*; and, College Board Advanced Placement Program.
- All students, unless enrolled in the Technology Apprenticeship Option or served under a Servicemembers Opportunity College (SOC), Servicemembers Opportunity College--Associate Degree (SOCAD), Servicemembers Opportunity College--Marine Corps (SOCMAR), or Servicemembers Opportunity College--Navy (SOCNAV-2) program agreement, must complete at least thirty semester hours at Vincennes University in order to be eligible for graduation with either an associate or baccalaureate degree.
- Of the total number of hours required for a specific baccalaureate degree, only ten of the last forty hours may be transfer hours. In associate degrees, only six of the last fifteen hours may be transfer hours except in those associate degree programs that require more than sixty-eight total hours. Students enrolled in associate degree programs that require more than sixty-eight hours and who have completed at least sixty-two hours of coursework, all of which is required and directly applicable in their degree program and who have otherwise met their residency requirement, may transfer back all remaining hours required in their programs.
- All active duty military personnel covered by SOC, SOCAD, SOCMAR, or SOCNAV-2 agreements must complete at least fifteen semester hours in courses from accredited colleges and universities, and of these fifteen, at least six hours must be earned through Vincennes University courses. Military personnel not covered by SOC, SOCAD, SOCMAR, or SOCNAV-2 agreements must complete all fifteen semester hours through Vincennes University courses.

Each degree category and each program offered by Vincennes University reflects a significant commitment to the general education of students. All Vincennes University degrees, whether associate or baccalaureate, require courses in general education to be completed consistent with the degree categories as outlined elsewhere in this catalog. (See [pages 73, 74 and 75](#) for the associate and baccalaureate general education requirement models.)

### **Petitions for Graduation**

All candidates for graduation must (1) file a Petition for Graduation with the Registrar as soon as possible in their final semester and (2) clear all University obligations.

## **General Education**

### **General Education Skills**

General education is an integral component of the learning process at Vincennes University, one which allows our students to prepare in a well-rounded fashion for future careers and educational pursuits. The skills listed below are general education skills which have been identified by the faculty as the minimum expected of a student graduating from this institution. *Some skills*

*(marked with an asterisk\*) will be measured by basic skills assessment instruments at the conclusion of a student's program of study while others are to serve as guidelines for faculty and student as the student progresses through his/her program.*

A. Reading

The student should:

1. summarize material accurately and concisely;
2. interpret subject matter literally and inferentially;\*
3. seek and acquire vocabulary through reading;\*
4. seek and understand subject matter pertinent to his/her career.

B. Writing

The student should:

1. write a document showing a clear purpose, effective organization, adequate supporting details, and using a mechanically correct style;
2. critically analyze and evaluate his/her own and others' writing;\*
3. appropriately incorporate ideas from outside sources into his/her own words with proper credit given;
4. be able to write a personal resume.

C. Oral Communication Skills

The student should:

1. express himself/herself clearly, using appropriate speaking styles that suit the message, purpose, and context;
2. use nonverbal cues which are appropriate to the verbal message;
3. actively listen to and critically evaluate oral communication;

D. Critical Thinking/Problem Solving

The student should:

1. use reasoning skills based on accuracy, clarity, solid evidence, depth and fairness;\*
2. define the problem;\*
3. analyze the problem for possible causes;\*
4. develop possible strategies for solutions;\*
5. select and implement strategies for solutions;\*
6. evaluate the effects of the strategy(ies) for solutions.

E. Mathematics

The student should:

1. apply a combination of arithmetic and algebraic skills appropriate to his/her major;\*
2. apply geometric spatial skills appropriate to his/her major;\*
3. solve problems using the appropriate skills identified above in both rote exercises and novel situations appropriate to his/her major.

F. Science Skills

The student should:

1. apply the use of observation and/or measurements to propose, analyze, test, and refine explanations for various physical or biological phenomena, appropriate to his/her major;
2. express, in written or verbal mode, the level of knowledge and understanding of the current scientific explanations of the physical and/or biological phenomena, appropriate for his/her major;
3. apply the proper use of English and metric systems of weights and measures.

G. Computer Skills

The student should:

1. have the ability to start up and move into a word processing program, complete the mechanical requirements of good writing (i.e., margins, spacing, font sizes, tabbing, centering, headers), editing (including cutting and pasting), spell checking, and printing.
2. have the ability to find, evaluate, and select Internet sources to incorporate in their writing. Students will also be able to document these properly.
3. have the ability to save files to hard drives and disks, and they should be able to retrieve them.

## H. Health and Physical Education Skills

The student should:

1. demonstrate knowledge and understanding of the positive effects of physical activity and exercise upon the quality of individual health related fitness by:
  - a. identifying the essential components of physical fitness and their specific positive effects upon individual health related fitness goals;
  - b. identifying and applying safe principles of fitness conditioning for development of an effective personal exercise and physical activity program;
  - c. demonstrating skills in assessing personal fitness levels and needs for the purpose of planning and initiating lifelong fitness activity;
2. recognize positive lifestyle choices and take responsibility for his/her well-being in making decisions regarding nutrition, body composition, stress management, personal safety, drugs, alcohol, tobacco, consumer health care, and other areas of life which influence personal wellness;
3. gain basic knowledge and skill in appreciation for a variety of exercise and physical activity skills useful in the pursuit of lifelong fitness.

## I. Library and Research Skills

The student should:

1. use the library as a source for lifelong learning, for leisure, personal, and professional needs;
2. select and evaluate basic library reference tools and information sources, including professional journals which pertain to a student's particular field of study, and understand appropriate techniques for recording and organizing needed information;
3. use basic computerized systems for accessing library resources;

## J. Cultural and Historical Awareness

To develop into a positive contributing member of society, the student should:

1. express verbally and in writing the effects of historical and political forces on their chosen career;
2. have knowledge of historical events, cultural diversity, geography, and various political and economic systems of the world;
3. have increased self-awareness of the psychological and social forces which shape and contribute to their behavior;
4. have an awareness of literature and the arts.

## K. Socialization

The student should:

1. respond to others in a polite, courteous manner;
2. demonstrate respect for other people's values;
3. demonstrate responsible behavior by accepting accountability for his/her own actions;
4. present a positive attitude about learning and studying by attending class and completing assignments;
5. learn to balance extra-curricular activities with academic activities and efforts.

## Definition of General Education

General Education at Vincennes University focuses on two distinct but interrelated educational components. Each component is essential to ensure development of measurable basic skills, critical and creative thinking skills, and a breadth of knowledge needed both to strengthen students' work in their major and to achieve the levels of understanding expected of all college graduates. The first component of general education at V.U. is basic skills. The purpose of this study is to ensure that students read, write, speak, and compute at a college level. These skills are necessary, not only for the communication and computation crucial to a successful life after completion of a degree, but also for the active and successful participation in the pursuit of a degree. Basic skills will be enhanced as students progress through the remainder of their coursework, and especially as they complete general education's second component, liberal education. The purpose of this study is to actualize the students' potential to live fuller lives as individuals and as members of different social institutions. This coursework provides the opportunity for students to develop an appreciation of humanity's varied responses to life lived in the natural world, both



as an individual and as a part of society. As a consequence of this study, students should achieve a better understanding of the world and people around them, and should thus be able to live a fuller and more participatory life.

### General Education Models

<b>General Education Model for Associate Degrees effective 2009-10</b>	
<b>Basic Skills Core</b>	
	<b>Credit Hours</b>
<i>Reading:</i> Earn a C or above in at least one <i>Reading Intensive</i> course.	
<i>Writing:</i> ENGL 101 or 112 (A.A., A.S., A.A.S.; <i>Students successfully completing ENGL 112 have satisfied the Liberal Education Core 3 credit-hour writing requirement</i> ) ..3	
<i>Mathematics:</i> One 100-level or higher mathematics course (A.A.S.)	
MATH 101 or higher mathematics course (A.A., A.S.).....	3
<i>Oral Communication:</i> One of the following as appropriate for the major:	
SPCH 140 (A.A.S.)	
SPCH 143 (A.A., A.S., A.A.S.)	
SPCH 148 (A.A., A.S., A.A.S.).....	2-3
<b>Total Credit Hours for A.A.S.</b> .....	<b>8-9</b>
<b>Total Credit Hours for A.A. and A.S.</b> .....	<b>9</b>
<b>Skills Enhancement and Liberal Education Core</b>	
<b>For A.A.</b>	
One of the following Writing Skills Courses: ENGL 102, 107, 108, 109, 205, 210, -or- the combination of LITR 220-221 .....	
	3
Computer Skills .....	*
Health and Wellness: PFWL 100 Lifetime Fitness/Wellness -or- PFWL 115 Concepts in Wellness -and- HLTH 211 First Aid.....	
	2-3
Laboratory Science ( <i>chosen from the Common Core Liberal Education list</i> ) .....	3
Social Science ( <i>chosen from the Liberal Education Core list</i> ) .....	6
Humanities ( <i>the first three hours chosen from the Common Core Liberal Education list, the second three hours chosen from the Broad Core Liberal Education list</i> ) .....	6
Foreign Language .....	8
<i>(Foreign Language directed toward the B.A. degree must include 8 hours of intermediate language in the same language)</i>	
<b>Total Credit Hours for A.A.</b> .....	<b>28-29</b>
<b>For A.S.</b>	
<b>Credit Hours</b>	
One of the following Writing Skills Courses: ENGL 102, 107, 108, 109, 205, 210, -or- the combination of LITR 220-221 .....	
	3
Computer Skills .....	*
Health and Wellness: PFWL 100 Lifetime Fitness/Wellness -or- PFWL 115 Concepts in Wellness -and- HLTH 211 First Aid.....	
	2-3
Laboratory Science ( <i>chosen from the Common Core Liberal Education list</i> ) .....	3
Humanities ( <i>chosen from the Common Core Liberal Education list</i> ) .....	3
Social Science ( <i>chosen from the Liberal Education Core list</i> ) .....	6
One of the following: Humanities, Science/Mathematics** ( <i>chosen from the Broad Core Liberal Education list</i> ) .....	3
<b>Total Credit Hours for A.S.</b> .....	<b>20-21</b>

(Continued on the following page)

<b>For A.A.S.</b>	
Computer Skills.....	*
Health and Wellness: PFWL 100 Lifetime Fitness/Wellness -or- PFWL 115 Concepts in Wellness -and- HLTH 211 First Aid.....	2-3
Science ( <i>chosen from the Common Core Liberal Education list</i> ) .....	3
Social Science ( <i>chosen from the Liberal Education Core list</i> ) .....	3
One course from two of the following areas: Humanities, Mathematics**, Science ( <i>chosen from the Broad Core Liberal Education lists</i> ) -or- Social Science or Writing ( <i>chosen from the Liberal Education Core List</i> ) .....	6
<b>Total Credit Hours for A.A.S.</b> .....	<b>14-15</b>
<b>Note:</b> Courses for Humanities, Science and Mathematics, and Social Science in the General Education Program must be selected from courses listed in the approved Liberal Education list. These courses must be outside the major specialization courses to qualify as general education.	
*See explanation of Computer Skills on <a href="#">page 80</a> .	
**The Basic Skills Core mathematics requirement may not be used for this credit.	
<b>Major Program</b>	
<b>Specialization Courses</b>	
All other courses, as determined and prescribed by the program, which may include additional academic skills, communication, general education, occupational, technical, free electives or other program requirements.	

<b>General Education Model for Baccalaureate Degrees effective 2009-10</b>	
<b>Basic Skills Core</b>	
	Credit Hours
<b>Writing:</b> ENGL 101 or 112 (B.A., B.S.; <i>Students successfully completing ENGL 112 have satisfied the Liberal Education Core 3 credit-hour writing requirement</i> ) .....	3
<b>Speaking:</b> SPCH 143 or 148 (B.A., B.S.) .....	3
<b>Mathematics:</b> MATH 102, 103 or higher MATH course (B.A., B.S.) .....	3
<b>Total Credit Hours for B.A. and B.S.</b> .....	<b>9</b>
<b>Skills Enhancement and Liberal Education Core</b>	
<b>For B.S.</b>	Credit Hours
Writing: Choose one of the following: ENGL 102, 107, 108, 109, 205, 210, -or- the combination of LITR 220-221 .....	3
Humanities and Values: 3 hours must be either PHIL 111, 212, or 313. All courses taken from either the Humanities Common or Broad Core .....	9
Social Sciences and History: 3 hours must be a history course chosen from the Social Science Core; the remaining 6 hours must be taken from courses listed on the Social Science Core. ....	9
Biological and Physical Sciences: One course must be a physical science course and one a biological science course. One of these two courses must be a laboratory science selected from the AA/AS Science and Mathematics Common Core .....	7
Computer Skills: .....	*
Health and Wellness: PFWL 100 Lifetime Fitness/Wellness -or- PFWL 115 Concepts in Wellness -and- HLTH 211 First Aid.....	2-3
Diverse Cultures/Global Perspectives: .....	3
Senior Capstone Experience: .....	3

*(Continued on the following page)*

**Note:** All B.S. programs require 6 credit hours of upper division general education. Those requirements are satisfied by completing the following:

- A 300-level Human Issues and Dilemmas course  
This requirement can be fulfilled by choosing a Human Issues and Dilemmas course from one of the three distribution categories listed above: Humanities and Values; Social Sciences and History; or Biological and Physical Sciences.
- Senior Capstone Experience

**Total Credit Hours for B.S.** ..... 36-37  
**General Education Total Hours for B.S.** ..... 45-46

\*See explanation of Computer Skills on [page 80](#).

**For B.A.**

Writing: Choose one of the following: ENGL 102, 107, 108, 109, 205, 210, -or- the combination of LITR 220-221 ..... 3

Humanities and Values: 3 hours must be either PHIL 111, 212, or 313. All courses taken from either the Humanities Common or Broad Core. .... 9

Foreign Language: 8 hours of intermediate language in the same language. *May be completed during the A.A. level course work.* ..... 8

Social Sciences and History: 3 hours must be a history course chosen from the Social Science Core; the remaining 6 hours must be taken from courses listed on the Social Science Core. .... 9

Biological and Physical Sciences: One course must be a physical science course and one a biological science course. One of these two courses must be a laboratory science selected from the AA/AS Science and Mathematics Common Core ..... 7

Computer Skills: ..... \*

Health and Wellness: PFWL 100 Lifetime Fitness/Wellness -or- PFWL 115 Concepts in Wellness -and- HLTH 211 First Aid..... 2-3

Diverse Cultures/Global Perspectives: ..... 3

Senior Capstone Experience:..... 3

**Note:** All B.A. programs require 6 credit hours of upper division general education. Those requirements are satisfied by completing the following:

- A 300-level Human Issues and Dilemmas course  
This requirement can be fulfilled by choosing a Human Issues and Dilemmas course from one of the three distribution categories listed above: Humanities and Values; Social Sciences and History; or Biological and Physical Sciences.
- Senior Capstone Experience

**Total Credit Hours for B.A.**..... 44-45  
**General Education Total Hours for B.A.** ..... 53-54

\*See explanation of Computer Skills on [page 80](#).

**Major Program**  
**Specialization Courses**  
All other courses as determined and prescribed by the program.

**Human Issues and Dilemmas Course Requirement**

Human Issues and Dilemmas Courses are 300-level Humanities and Values; Social Sciences and History; or Biological and Physical Sciences courses intended to advance students' abilities to understand and address the complexities of human life. The courses will actively engage students in discussion and treatment of the dilemmas that arise when issues are considered from multidisciplinary perspectives. The courses will empower students to create knowledge and meaning by identifying issues, synthesizing various perspectives, and determining solutions to dilemmas through both individual evaluation of problems and collaborative efforts with others.

As such, these courses will enhance students' critical thinking, information management, writing, speaking, and collaboration skills.

### **Capstone Experience Requirement**

The Capstone Experience (XXXX 490, Capstone Experience) is a three-credit hour course intended to synthesize and integrate the knowledge and skills of the major course work and the general and liberal education course work. Students will be required to complete a major research project aimed at addressing a philosophic, social, political, economic, or historical problem connected to their major field of study. Activities in the course will include a major research paper and an oral presentation based on significant research and project results. These activities will be opportunities for students to display the content knowledge, research skills, critical thinking, affective learning, and presentation skills needed to be life-long learners.

The course will require a major research project (the length will need to be determined, but the major paper should be nothing less than 10 pages and probably should be closer to 15-20, minimum), oral summary presentation of the results of the project, extensive reading and/or research, critical thinking, and possibly experiential learning as part of the projects designed with input from the students involved in the course. Additionally, the courses should be less focused on delivering new information than synthesizing and integrating knowledge and skills, and the projects should include some effort to deal with social, philosophic, economic, political or historical problems and issues related to or raised by the content of the major field of study. As such, the courses could conceivably be used as assessment of major program and general/liberal education learning, and could be used to assess student preparedness for employment.

The texts used for the courses will be more "philosophic" in nature, intended to acquaint students with the problems related to the major field, rather than being texts used to expose students to new areas of technical learning.

### **General Education: Basic Skills Core**

The general education core at Vincennes University includes those courses that are designed to develop a common set of basic skills competencies for all students pursuing a baccalaureate or an associate degree. All students are required to demonstrate a minimum level of competence in all of the general education core areas, as described below, as a condition of fulfilling the requirements for the A.A., A.S., A.A.S., and the B.A. or B.S. degrees. Students are not exempt from general education requirements based on national standardized aptitude test scores (SAT, ACT) or placement exam scores, such as CPT, COMPASS, or ASSET. The common core areas and the criteria for achievement are established as follows.

Reading, Writing and Speaking Intensive courses are indicated in the course description section of this catalog using R, W and S superscripts respectfully. (Academic advisors will have a complete list available for student use.)

Students are responsible for meeting all of their reading, writing, and speaking intensive requirements for graduation. They must be aware that taking classes designated as reading, writing, and/or speaking intensive will satisfy those requirements only under the following conditions: (1) students must have completed all reading requirements, English Composition I (ENGL 101) or Rhetoric and Research (ENGL 112), and/or a required speech course before taking intensive courses to satisfy intensive requirements, (2) students must successfully complete (C or better) the intensive class in order to receive intensive credit, and (3) students must complete all intensive course assignments in order to successfully complete the course (C or better).

***In addition, students should be aware that they may not be enrolled in a reading intensive class without having completed all of their reading requirements.*** Also, students who have not completed English Composition I (ENGL 101) or Rhetoric and Research (ENGL 112) and a required speech class might not be prepared for the writing or speaking requirements of the class. These students may enroll in the intensive class, but must obtain instructor permission, on the first day of class, in order to remain enrolled in the course.

Every program includes courses that will satisfy the intensive requirements, and students should complete the requirements using these courses; however, when necessary, other intensive courses may be used to complete the intensive requirements. Only Vincennes University courses designated as intensive since Fall of 1998 will satisfy the intensive requirements described in the

Vincennes University catalog. Courses transferred from other institutions or experience-based learning credit courses will not satisfy the intensive credit unless an equivalent intensive experience can be verified. When a student can provide adequate documentation of an equivalent intensive experience, the intensive requirement will be considered met.

## I. READING

### A. In order to demonstrate college level proficiency in reading, the student should:

1. summarize material accurately and concisely;
2. interpret subject matter literally and inferentially;
3. seek and acquire vocabulary through reading; and
4. seek and understand subject matter pertinent to his or her career.

### B. Criteria for Demonstrating Achievement in Reading for the A.A., A.S., and A.A.S.:

1. Each student who is a candidate for the A.A., A.S., or A.A.S. degree must demonstrate achievement in reading by satisfying the conditions of either Criterion No. 1, or Criterion No. 2.
2. The conditions of Criterion No. 1 are:
  - a. Placement scores require no developmental/remedial reading upon initial matriculation; and
  - b. Earn a *C* or better in at least one *Reading Intensive* course.
3. The conditions of Criterion No. 2 are:
  - a. Placement scores require developmental/remedial reading upon initial placement; and
  - b. Earn a *C* or better in RE AD 009, RE AD 011, RE AD 103, OR READ 104 and demonstrate college level reading on a standardized reading test; and
  - c. Complete and earn a *C* or better in at least one *Reading Intensive* course subsequent to completion of the requirements of 3b.
4. *If and only if*, the student has attempted and failed to satisfy the conditions of Criterion No. 1 or No. 2, and student chooses not to repeat those steps, he or she may satisfy the *Reading Intensive* requirement by achieving a CPT Reading score of 93 or higher prior to graduation.

### C. Criteria for Approval as a *Reading Intensive* Course:

1. A *Reading Intensive* course is one that reinforces the reading skills expected of college students; and
2. Any course will be approved as *Reading Intensive* if it meets *at least one* of the following criteria:
  - a. At least twenty percent of a student's grade is based on reading that is not covered by lecture or study guide. This reading may be part of the text(s) required for the course but not covered by the instructor in class, study guides, or study sessions, or it may be reading that is expected in addition to textbook reading and that is completed independent of normal classroom activities (such as reading expected to make up at least twenty percent of material covered on tests or research papers that constitute at least twenty percent of the course grade), *or*
  - b. Reading is the central activity of the approved course and a student could not pass the course without doing the required reading for the course, as, for example, in the case of Literature courses.

## II. WRITING

### A. In order to demonstrate college-level proficiency in writing, the student should:

1. write a document showing a clear purpose, effective organization, adequate supporting details, and using a mechanically correct style;
2. critically analyze and evaluate his or her own and others' writing;
3. appropriately incorporate ideas from outside sources into his or her own words with proper credit given;
4. be able to write a personal resume.

**B. Criteria for Demonstrating Achievement in Writing for the A.A. and A.S.:**

1. Each student who is a candidate for either the A.A. or A.S. degree must demonstrate achievement in writing by satisfying the conditions of Criterion No. 1. If the student fails to meet these conditions, he/she *may then* attempt to meet the conditions of Criterion No. 2.
2. The conditions of Criterion No. 1 are:
  - a. Earn a *C* or better in ENGL 101 and
  - b. Earn a passing grade in one of the following: ENGL 102, 107, 108, 109, 205, or 210, and
  - c. Earn a *C* or better in a course approved and designated as a Writing Intensive course.
- or -
- d. Earn a *C* or better in ENGL 112 and
  - e. Earn a *C* or better in a course approved and designated as a Writing Intensive course.
3. The conditions of Criterion No. 2 *may be met if and only if* a student has attempted, but not completed Criterion No. 1 successfully. Criterion No. 2 is as follows: If the student has failed to earn a *C* or better in any of the approved *Writing Intensive* courses in his or her major *or* in the liberal education core and chooses not to repeat that approach, then, prior to graduation, the student must pass a writing test administered by the English Department.

**C. Criteria for Demonstrating Achievement in Writing for the A.A.S:**

1. Each student who is a candidate for the A.A.S. degree must demonstrate achievement in writing by meeting the following criteria:
  - a. Earn a *C* or better in ENGL 101 or ENGL 112, and
  - b. Earn a *C* or better in an approved *Writing Intensive* course either in his or her major or the liberal education core, or
  - c. If the student fails to earn a *C* or better in an approved *Writing Intensive* course and chooses not to attempt that approach again, then the student must, prior to graduation, pass a writing test administered by the English Department.

**D. Criteria for Approval as a *Writing Intensive* Course.**

1. While it is assumed that students will most often select a *Writing Intensive* course within their majors, courses identified as meeting the ***Liberal Education*** component may also qualify as *Writing Intensive*. For a course to be designated as a *Writing Intensive* course, the following criteria must be met.
2. The course uses writing as one of its tools to promote the learning of course materials.
3. Assignments involving writing should be given throughout the semester and regular feedback given to the students on ways to improve their writing. At least one of the writing assignments should require a rough draft submitted for comment and returned before the final draft is expected.
4. Individual writing assignments may vary in scope and length according to the needs of the major or the course. The type of assignment should be determined by the type of writing required for success in advanced study or in the profession. Research papers, summaries, essay exams, lab reports, journals, and other appropriate writing forms may all be used. A minimum of 2000 words, exclusive of rough drafts, for the entire course is expected. At least one writing assignment must require students to use and document outside sources in their writing.
5. Writing, as described in D.4, above, should be a significant part of the overall course grade. "Significant" is intended to mean one of the following options: (1) Written work will determine at least forty percent of the course grade. (2) If written work will count some percentage less than forty percent, then with revisions, all written work must achieve a passing grade. In the case of option 2, failure to complete writing assignments with an average grade of *C* or higher will result in failure of the course. It is assumed that instructors will identify, in their syllabi, writing objectives

such as the type of writing expected, the number of writing assignments, and the percentage of the grade to be determined by each writing assignment.

6. Instructors will provide students with criteria used to evaluate their writing. Such criteria must reflect the standards of the profession or discipline.
7. Instructors will provide assistance to students to help them with their writing – and/or direct them to the resources available on campus to provide additional assistance. This assistance might include the following: sample papers that meet the requirement; group activities that give students feedback on their writing; requiring outlines or rough drafts that are returned with comments before the paper is completed; tutorials in the lab; and individual conferences.

### III. ORAL COMMUNICATION

#### A. In order to demonstrate college-level proficiency in oral communication, the student should:

1. Express him- or herself clearly, using appropriate styles that suit the message, purpose, and context;
2. Use non-verbal cues which are appropriate to the verbal language;
3. Actively listen and critically evaluate oral communication;
4. Seek and acquire vocabulary through speaking and listening.

#### B. Criteria for Demonstrating Achievement in Oral communication for the A.A., A.S., and A.A.S.:

1. Each student who is a candidate for the A.A., A.S., or A.A.S. degree must demonstrate achievement in oral communication by satisfying the conditions of Criterion No. 1 and Criterion No. 2.
2. The conditions of Criterion No. 1 are: Earn a C or better in the public speaking course appropriate to the degree sought:
  - a. A.A., A.S., A.A.S.: SPCH 143 or 148.
  - b. A.A.S.: SPCH 140.

*(If the student's placement scores require concurrent registration in ENGL/READ/MATH 009, it is recommended that the student take SPCH 009 before attempting Criterion 1.)*

3. The conditions of Criterion No. 2 are: Earn a C or better in an approved *Speaking Intensive* course either in the student's major or on the **Liberal Education Core** list.
4. If, and only if, the student has attempted and failed to meet the conditions of Criterion 2 and chooses not to attempt that approach again, then prior to graduation, the student must pass at a seventy percent level, the Personal Report of Communication Apprehension (PRCA) and Speech Comprehension tests administered by the Speech Department.

#### C. Criteria for Approval as a *Speaking Intensive* Course.

1. A *Speaking Intensive* course reinforces the oral communication skills beyond normal classroom discussion.
2. Preferably, but not necessarily, the course occurs within the major and includes one or more of the following types of speaking experiences:
  - a. Present one oral report or participate on a symposium or panel discussion.
  - b. Deliver an oral presentation of one's work to peers or deliver oral critiques of others' work.
  - c. Deliver sales presentations.
  - d. Participate in and have evaluated oral communication activities such as role-playing or simulations of job-related experiences; i.e., interviews, peer counseling, conducting business meetings, teaching a lesson, explaining processes or procedures, among others.
  - e. Engage in some form of persuasion, debate, or argumentation.

#### D. Evaluation of Speaking Experiences in a *Speaking Intensive* Course.

1. Just as spelling, grammar, sentence structure, and word choice are elements evaluated in written assignments, the types of oral presentations listed above under *D* are evaluated in the following ways:
  - a. Having a clear organization, with an introduction, body, and conclusion.

- b. Supporting contentions with documented evidence.
- c. Using appropriate speaking styles that suit the message, purpose, and context.
- d. Using nonverbal cues which are appropriate to the verbal language.

#### IV. MATHEMATICS

##### A. In order to demonstrate Mathematics proficiency, the student should be able to:

- 1. apply a combination of fundamental arithmetic and algebra skills,
- 2. apply fundamental geometric spatial skills, and
- 3. solve problems using the appropriate skills identified above in both rote and novel situations.

##### B. Criteria for Demonstrating Achievement in Mathematics for the A.A. or A.S. Degrees:

Each student who is a candidate for either the A.A. or A.S. degree must demonstrate achievement in mathematics by satisfying the conditions of one of the following criteria.

- 1. Earn a C or better in one mathematics course *above* MATH 101, or
- 2. Earn a C or better in MATH 101 *and then* pass a standardized test prior to graduation.

##### C. Criteria for Demonstrating Achievement in Mathematics for the A.A.S. Degree:

Each student who is a candidate for the A.A.S. degree must demonstrate achievement in mathematics by satisfying the conditions of one of the following criteria.

- 1. Earn a C or better in two 100-level or higher MATT mathematics courses, or
- 2. Earn a C or better in a mathematics course above MATH 101, or
- 3. Earn a C or better in one (1) 100-level or higher MATT mathematics course or MATH 101 *and then* pass a standardized test prior to graduation.
- 4. Earn a C or better in the Apprenticeship Courses MATA 101, MATA 102, MATA 103, MATA 104, MATA 105, and MATA 106.

#### Computer Skills

All Vincennes University students should develop the minimum computer skills described in section G of the General Education Skills through a “computers across the curriculum” approach to developing these skills. Beginning in the basic skills courses and continuing through other general education and program course work, students will be expected to develop and apply these skills. In addition, most programs expect majors to enhance their basic computing skills with program-related computer skills. Programs requiring a skills-enhancing course identify those specific requirements on the program pages.

#### Liberal Education Core List

##### Social Science

ECON 100 Elements of Economics	PSYC 141 Applied Psychology <sup>S</sup>
ECON 201 Microeconomics <sup>R</sup>	PSYC 142 General Psychology
ECON 202 Macroeconomics <sup>R</sup>	PSYC 201 Developmental Psychology
ECON 203 Survey of Labor Economics <sup>R</sup>	PSYC 240 Human Sexuality <sup>R</sup>
ECON 208 Personal Financial Management <sup>R</sup>	PSYC 253 Introduction to Social Psychology
HIST 125 History of American Technology <sup>R</sup>	PSYC 280 Health Psychology
HIST 131 Survey of European History I	SOCH 211 Honors Contemporary Civilization <sup>R/W/S</sup>
HIST 132 Survey of European History II	SOCL 151 Principles of Sociology
HIST 139 American History I	SOCL 154 Cultural Anthropology
HIST 140 American History II	SOCL 164 Introduction to Multicultural Studies
HIST 155 Survey of Architectural History <sup>R/W</sup>	SOCL 245 Cultural Diversity: Sociology <sup>R/W/S</sup>
HIST 235 World Civilization I <sup>R</sup>	SOCL 250 Sociology of Aging
HIST 236 World Civilization II <sup>R</sup>	SOCL 252 Social Problems
POLS 111 American National Government	SOCL 253 Introduction to Social Psychology
POLS 112 State and Local Government	SOCL 254 Introduction to Archaeology
POLS 201 Introduction to Political Science <sup>R/W</sup>	SOCL 260 Sociological Aspects of Death
POLS 210 Personal Law	SOCL 261 Sociology of Relationships and Families
POLS 211 Introduction to World Politics <sup>R/W/S</sup>	



### Humanities Common Core

ARTT 110 Art Appreciation	LITR 223 American Literature II <sup>R</sup>
ARTT 130 Art History I – Pre-history to 1500	LITR 224 Survey of English Literature I <sup>R/W/S</sup>
ARTT 131 Art History II – 1500 to 20 <sup>th</sup> Century <sup>R/W</sup>	LITR 225 Survey of English Literature II <sup>R/W/S</sup>
HUMH 221 Honors Humanities I <sup>R/W/S</sup>	MUSM 118 Music Appreciation
HUMH 222 Honors Humanities II <sup>R/W/S</sup>	PHIL 111 Introduction to Philosophy
HUMN 210 Introduction to Humanities I <sup>R/W/S</sup>	PHIL 112 Introduction to Ethics <sup>R/W/S</sup>
HUMN 211 Introduction to Humanities II <sup>R/W/S</sup>	RLST 201 Major Religions of the West
LITR 100 Introduction to Literature <sup>R/W</sup>	RLST 202 Major Religions of the East
LITR 220 Introduction to World Literature I <sup>R/W/S</sup>	THEA 100 Theatre Appreciation
LITR 221 Introduction to World Literature II <sup>R/W/S</sup>	THEA 245 Theatre History I <sup>R/W</sup>
LITR 222 American Literature I <sup>R</sup>	THEA 250 Theatre History II <sup>R/W</sup>

### Humanities Broad Core

ARTT 110 Art Appreciation	LITR 222 American Literature I <sup>R</sup>
ARTT 116 Drawing I	LITR 223 American Literature II <sup>R</sup>
ARTT 130 Art History I – Pre-history to 1500	LITR 224 Survey of English Literature I <sup>R/W/S</sup>
ARTT 131 Art History II – 1500 to 20 <sup>th</sup> Century <sup>R/W</sup>	LITR 225 Survey of English Literature II <sup>R/W/S</sup>
ARTT 213 Ceramics I <sup>S</sup>	LITR 227 Introduction to World Fiction <sup>R/W/S</sup>
ARTT 220 Photography I <sup>S</sup>	LITR 228 Introduction to World Poetry <sup>R/W</sup>
ASLG 101 American Sign Language I	LITR 229 Introduction to World Drama <sup>R/W</sup>
ASLG 103 American Sign Language II	LITR 230 Contemporary Literature <sup>R/W/S</sup>
ASLG 111 The Deaf Community	LITR 240 Children's Literature <sup>R</sup>
FACS 156 Marriage and the Family <sup>R/W</sup>	LITR 250 The Twentieth Century Mystery Novel <sup>R/S</sup>
FACS 206 Fundamentals of Nutrition	MUSM 100 Voice Class
FREN 101 French Level I	MUSM 101 Beginning Piano Class
FREN 103 French Level II	MUSM 118 Music Appreciation
GRMN 101 German Level I	MUSM 140 Beginning Guitar Class
GRMN 103 German Level II	PHIL 111 Introduction to Philosophy
HUMH 221 Honors Humanities I <sup>R/W/S</sup>	PHIL 112 Introduction to Ethics <sup>R/W/S</sup>
HUMH 222 Honors Humanities II <sup>R/W/S</sup>	PHIL 213 Logic <sup>R/W/S</sup>
HUMN 164 Introduction to Multicultural Studies	PHIL 220 Philosophy of Religion
HUMN 210 Introduction to Humanities I <sup>R/W/S</sup>	RLST 201 Major Religions of the West
HUMN 211 Introduction to Humanities II <sup>R/W/S</sup>	RLST 202 Major Religions of the East
HUMN 245 Cultural Diversity: Humanities <sup>R/W/S</sup>	SPAN 101 Spanish Level I
JOUR 216 Mass Communications <sup>R/W/S</sup>	SPAN 103 Spanish Level II
LITR 100 Introduction to Literature <sup>R/W</sup>	SPCH 202 Oral Interpretation of Literature <sup>S</sup>
LITR 210 Literature of the Old Testament <sup>R</sup>	THEA 100 Theatre Appreciation
LITR 211 Literature of the New Testament <sup>R</sup>	THEA 146 Fundamentals of Acting
LITR 220 Introduction to World Literature I <sup>R/W/S</sup>	THEA 245 Theatre History I <sup>R/W</sup>
LITR 221 Introduction to World Literature II <sup>R/W/S</sup>	THEA 250 Theatre History II <sup>R/W</sup>

### Science and Mathematics Common Core for A.A. and A.S.

<i>Laboratory Sciences</i>	LFSC 100 Human Biology
CHEM 100/100L Elementary Chemistry	LFSC 101 Plant and Animal Biology
CHEM 101/101L Elementary Organic Chemistry and Biochemistry	LFSC 105/105L Principles of Life Science I
CHEM 103/103L Introduction to Chemistry	LFSC 107 Essentials of Human Anatomy and Physiology
CHEM 104 Consumer Science	LFSC 111/111L Anatomy and Physiology I
CHEM 105/105L General Chemistry I	PHYH 232 Honors Physical Science-Physics
CHEM 107 World of Chemistry	PHYS 100 Physics for Health-Related Professions
CHEM 110 General, Organic and Biochemistry	PHYS 105/105L General Physics I
CHEM 120 Chemistry of Hazardous Materials	PHYS 205 Physics for Scientists and Engineers I <sup>W</sup>
CHMH 296 Chemistry in Context	PHYT 101 Technical Physics
ERTH 100 Earth Science	PSCI 101 Physical Science
ERTH 115/115L Physical Geology	PSCI 103 Basic Physics of Music and Sound

### Science and Mathematics Broad Core for A.A. and A.S

#### Laboratory Sciences

CHEM 100/100L Elementary Chemistry  
CHEM 101/101L Elementary Organic Chemistry  
and Biochemistry  
CHEM 103/103L Introduction to Chemistry  
CHEM 104 Consumer Science  
CHEM 105/105L General Chemistry I  
CHEM 107 World of Chemistry  
CHEM 108 Chemistry for the Studio Artist  
CHEM 110 General, Organic and Biochemistry  
CHEM 120 Chemistry of Hazardous Materials  
CHMH 296 Chemistry in Context  
ERTH 100 Earth Science  
ERTH 115/115L Physical Geology  
ERTH 214/214L Historical Geology  
LFSC 100 Human Biology  
LFSC 101 Plant and Animal Biology  
LFSC 105/105L Principles of Life Science I  
LFSC 107 Essentials of Human Anatomy and  
Physiology  
LFSC 111/111L Anatomy and Physiology I  
LFSC 112/112L Anatomy and Physiology II  
LFSC 210/210L Microbiology  
PHYH 232 Honors Physical Science-Physics  
PHYS 100 Physics for Health-related Professions  
PHYS 105/105L General Physics I  
PHYS 106/106L General Physics II  
PHYS 107 Geometrical Optics  
PHYS 205 Physics for Scientists and Engineers I<sup>W</sup>  
PHYS 206/206L Physics for Scientists and Engi-  
neers II<sup>R</sup>  
PHYS 218 Essentials of General Physics  
PHYT 101 Technical Physics  
PSCI 101 Physical Science  
PSCI 102 Physical Science for Elementary  
Education Majors

PSCI 103 Basic Physics of Music and Sound

#### Sciences

AGRI 103 Fundamentals of Horticulture<sup>W</sup>  
CHEM 106 General Chemistry II<sup>R</sup>  
ERTH 101 Earth and Environmental Lectures<sup>S</sup>  
ERTH 105 Geography of Indiana  
ERTH 106 Economic Geography<sup>S</sup>  
ERTH 111 Introduction to Remote Sensing<sup>R</sup>  
ERTH 115 Physical Geology  
ERTH 204 Oceanography  
ERTH 207 World Geography  
ERTH 208 Principles of Conservation  
ERTH 210 General Astronomy  
ERTH 214 Historical Geology  
ERTH 221 Meteorology  
LFSC 108 Principles of Human Anatomy and  
Physiology I  
LFSC 109 Principles of Human Anatomy and  
Physiology II  
LFSC 200 Heredity and Society<sup>R/W/S</sup>  
LFSC 201 Issues in Biology<sup>R/S</sup>  
PHYS 105 General Physics I  
PHYS 106 General Physics II  
PSCI 104 Energy and the Environment

#### Mathematics

MATH 101 Intermediate Algebra  
MATH 102 College Algebra  
MATH 104 Trigonometry  
MATH 110 Statistics  
MATH 111 Finite Mathematics  
MATH 115 Survey of Calculus I  
MATH 118 Calculus with Analytic Geometry I

### Science and Mathematics Common Core for A.A.S.

#### Laboratory Sciences

CHEM 100/100L Elementary Chemistry  
CHEM 101/101L Elementary Organic Chemistry  
and Biochemistry  
CHEM 103/103L Introduction to Chemistry  
CHEM 104 Consumer Science  
CHEM 105/105L General Chemistry I  
CHEM 107 World of Chemistry  
CHEM 110 General, Organic and Biochemistry  
CHEM 120 Chemistry of Hazardous Materials  
CHMT 100 Fuels, Lubricants and Coolants  
ERTH 100 Earth Science  
ERTH 115/115L Physical Geology  
LFSC 100 Human Biology  
LFSC 101 Plant and Animal Biology  
LFSC 105/105L Principles of Life Science I  
PHYS 100 Physics for Health-Related Professions  
PHYS 105/105L General Physics I  
PHYS 205 Physics for Scientists and Engineers I<sup>W</sup>  
PHYT 100 Physics for Technicians

PHYT 101 Technical Physics  
PSCI 101 Physical Science

#### Sciences

CHEM 106 General Chemistry II<sup>R</sup>  
ERTH 101 Earth and Environmental Lectures<sup>S</sup>  
ERTH 105 Geography of Indiana  
ERTH 106 Economic Geography<sup>S</sup>  
ERTH 112 Cartography<sup>W</sup>  
ERTH 115 Physical Geology  
ERTH 204 Oceanography  
ERTH 207 World Geography  
ERTH 208 Principles of Conservation  
ERTH 210 General Astronomy  
ERTH 221 Meteorology  
LFSC 200 Heredity and Society<sup>R/W/S</sup>  
LFSC 201 Issues in Biology<sup>R/S</sup>  
PHYS 105 General Physics I  
PSCI 104 Energy and the Environment

### Science and Mathematics Broad Core for A.A.S.

<i>Laboratory Sciences</i>	ERTH 101 Earth and Environmental Lectures <sup>S</sup>
CHEM 100/100L Elementary Chemistry	ERTH 105 Geography of Indiana
CHEM 101/101L Elementary Organic Chemistry and Biochemistry	ERTH 106 Economic Geography <sup>S</sup>
CHEM 103/103L Introduction to Chemistry	ERTH 111 Introduction to Remote Sensing <sup>R</sup>
CHEM 104 Consumer Science	ERTH 112 Cartography <sup>W</sup>
CHEM 105/105L General Chemistry I	ERTH 115 Physical Geology
CHEM 107 World of Chemistry	ERTH 204 Oceanography
CHEM 108 Chemistry for the Studio Artist	ERTH 207 World Geography
CHEM 110 General, Organic and Biochemistry	ERTH 208 Principles of Conservation
CHMT 100 Fuels, Lubricants and Coolants	ERTH 210 General Astronomy
ENGT 160 Hydraulics, Pneumatics and Mechanics	ERTH 214 Historical Geology
ERTH 100 Earth Science	ERTH 221 Meteorology
ERTH 115/115L Physical Geology	LFSC 108 Principles of Human Anatomy and Physiology I
ERTH 214/214L Historical Geology	LFSC 109 Principles of Human Anatomy and Physiology II
LFSC 100 Human Biology	LFSC 200 Heredity and Society <sup>R/W/S</sup>
LFSC 101 Plant and Animal Biology	LFSC 201 Issues in Biology <sup>R/S</sup>
LFSC 105/105L Principles of Life Science I	PHYS 105 General Physics I
LFSC 111/111L Anatomy and Physiology I	PHYS 106 General Physics II
PHYS 100 Physics for Health-Related Professions	PSCI 104 Energy and the Environment
PHYS 105/105L General Physics I	
PHYS 106/106L General Physics II	
PHYS 107 Geometrical Optics	<i>Mathematics</i>
PHYS 205 Physics for Scientists and Engineers I <sup>W</sup>	MATH 101 Intermediate Algebra
PHYS 206/206L Physics for Scientists and Engineers II <sup>R</sup>	MATH 102 College Algebra
PHYS 218 Essentials of General Physics	MATH 104 Trigonometry
PHYT 100 Physics for Technicians	MATH 110 Statistics
PHYT 101 Technical Physics	MATH 111 Finite Mathematics
PSCI 101 Physical Science	MATH 115 Survey of Calculus I
PSCI 103 Basic Physics of Music and Sound	MATH 118 Calculus with Analytic Geometry I
	MATT 103 Consumer Arithmetic
	MATT 105 Applied Mathematics I
	MATT 106 Applied Mathematics II
	MATT 107 Applied Mathematics III
	MATT 109 Business Mathematics

#### *Sciences*

AGRI 103 Fundamentals of Horticulture<sup>W</sup>  
CHEM 106 General Chemistry II<sup>R</sup>

### Writing Core for A.A.S

ENGL 102 English Composition II	ENGL 112 Rhetoric and Research
ENGL 107 Business English	ENGL 205 Business Communications
ENGL 108 Technical Writing	ENGL 210 Advanced Expository Writing
ENGL 109 Broadcast Writing	

### Diverse Cultures and Global Perspectives Course List

ERTH 207 World Geography	SPAN 230 Survey of Spanish Civilization
FREN 230 Contemporary French Civilization	SPAN 240 Survey of Spanish American Culture
GRMN 230 A Survey of German Civilization	TECH 300 Workplace Diversity
HUMN 245 Cultural Diversity: Humanities	THEA 245 Theatre History I
SOCH 211 Honors Contemporary Civilization	THEA 250 Theatre History II
SOCL 245 Cultural Diversity: Sociology	



# Continuing Studies

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## Distance Education/Degree Completion

Vincennes University’s Distance Education and Degree Completion Programs offer students the opportunity to pursue their education goals without having to spend extended periods of time on a college campus. Over 400 courses are offered through the Distance Education Program, with more than 24 degrees available entirely online. Students who need access to college courses *and* who need flexibility to accommodate busy schedules, find Vincennes University’s Distance Education Program to be the answer.

Degrees available online at Vincennes University include:

### Associate in Arts

1050 Behavioral Sciences  
 1053 Behavioral Sciences – Psychology  
     Concentration  
 1054 Behavioral Sciences – Sociology  
     Concentration  
 1450 Liberal Arts – Social Science  
     Concentration

### Associate of Applied Science

2250 General Studies  
 4832 Pharmacy Technician  
 5250 Accounting  
 5360 Business Management  
 5450 Computer Programming Technology  
 5590 Administrative Office Technology  
 5900 General Studies – Business Studies  
 6050 Funeral Service Education  
 7501 Law Enforcement Studies Concentration  
 8901 General Studies - Technology  
     Apprenticeship

### Degree Completion Programs

6030 Emergency Medical Services  
 6550 Surgical Technology  
 7350 Fire Science & Safety Technology

### Associate of Science

1050 Behavioral Sciences  
 1053 Behavioral Sciences – Psychology  
     Concentration  
 1054 Behavioral Sciences – Sociology  
     Concentration  
 1450 Liberal Arts – Social Science Concentration  
 1500 Social Work  
 2250 General Studies  
 5050 Business Administration  
 5510 Information Technology  
 6050 Funeral Service Education  
 6150 Health Information Management  
 7501 Law Enforcement Studies Concentration  
 8901 General Studies - Technology  
     Apprenticeship

### Certificates of Program Completion

1055 Behavioral Sciences – Substance Abuse  
     Certificate  
 1056 Behavioral Sciences – Community  
     Rehabilitation  
 2255 General Studies – Customized Certificate  
 6551 Surgical Assisting Certificate

New technology solutions are vastly changing and improving the ways we teach and learn. Distance Education courses are created to utilize that technology to deliver courses to students wherever they are. Classes are delivered to the student – any where in the world! Distance courses are highly portable, providing students additional flexibility in scheduling and completing

classes. Many of the barriers that have prevented students, both traditional and non-traditional, from pursuing their academic goals have now been laid aside.

Courses are available to students over the Internet, by traditional paper-based correspondence, and in some cases, by CD. Within the state of Indiana, television and 2-way video courses are offered on a case specific basis. Courses are scheduled year-round and offered in four different term options to accommodate a variety of student needs: regular semester-based courses, 8-week courses, 6-month courses, and a select number of 12-month courses. A schedule of courses can be found at [www.vinu.edu/distance](http://www.vinu.edu/distance), or by contacting the Distance Education office at 1-800-880-7961.

Students interested in pursuing their degrees through Vincennes University's Distance Education Program are subject to the University's standard admissions requirements. Students may apply online at [www.vinu.edu](http://www.vinu.edu). Students may register for Distance Education courses by contacting the Distance Education office. Students choosing the distance education option are required to develop the same competencies and satisfy the same degree requirements as campus-based programs. Credits earned through the Distance Education Program are applicable to the University's residency requirements.

Financial Aid is available for eligible students taking distance education courses. Eligibility is determined in the same manner as for other campus-based programs. Special rules apply for courses scheduled for terms longer than traditional semester-based courses. Students should refer to the Financial Aid section of this catalog for specific information and may contact the Financial Aid Office at Vincennes University for course eligibility determinations.

Students with credits earned through CL EP or Dantes (DSST) standardized testing programs, and/or credits earned through other colleges or universities may request that Vincennes University award appropriate transfer credit toward their degree programs. Students should arrange to have official transcripts forwarded to the Office of the Registrar for transfer consideration. Military students desiring an evaluation of military training and experience for college credit according to approved ACE guidelines, should contact the Military Education Program office at Vincennes University.

**Credit by Examination.** Vincennes University offers students the opportunity to enroll in courses on a credit by examination basis. Students who wish to pursue this option must first enroll in the desired course, pay the standard tuition and fees, and advise the instructor of their intent to attempt to earn the credit by comprehensive examination. Students will receive the course syllabus and may purchase the required course materials. Students are required to prepare for a single, comprehensive examination that covers all course content and objectives. The instructor will refer students to the Distance Education Office to arrange for the examination.

It is the student's responsibility to study the material required for the course and prepare for a single, comprehensive examination that covers the course. The results of this examination will provide the sole basis for determining whether credit is earned for the course. Some courses require skill proficiencies and may not qualify for credit by examination. The maximum time allowed between the enrollment date and the exam date is the regularly scheduled length of the course term.

**Experienced-based Learning Credit.** Vincennes University offers adults the opportunity to earn college credit for significant lifetime learning and experience. Such experience may include lifetime work-experiences, earned certifications, in-service training, reading and personal study, and extensive volunteer work. Students develop a comprehensive portfolio detailing their life experiences and specifically describing the college-level learning derived. Documentation is required.

Students register for and complete the Portfolio Development course (ENGL 125) under the supervision of an English faculty member. Once the portfolio is appropriately developed, it is reviewed and evaluated by faculty from various disciplines to determine the award of experiential credit. The university's academic deans are ultimately responsible for the final determination of credit to be granted. The transferability of experiential credit varies among institutions. Students should contact schools directly to determine policies regarding the transfer of experienced-based credit.

## Military Education Program

The Vincennes University Military Education Program (MEP) was implemented Fall 1987 to assist the soldiers of the Indiana National Guard and the Indiana-based United States Army Reserve Units in meeting the newly mandated educational requirements established by the United States Congress. A combination of specially developed one credit hour classes and traditional college classes were taught in National Guard armories and Reserve centers to meet this need. At the request of the National Guard Bureau, Vincennes University established a program site at the National Guard Professional Education Center, Camp Robinson in North Little Rock, Arkansas, in Spring 1988. This was the catalyst for the MEP to expand to other states and branches of the military.

Today the program serves a variety of military populations nationwide. The out-of-state resident and weekend programs provide access to associate degree and certificate programs for active duty and active reservists in the Army, Army Reserves, National Guard, Navy, Marine Corps, and Coast Guard.

In August, 2000, Vincennes University was selected as one of sixteen colleges and universities to partner with the Navy in their Navy College Distance Learning Partnership Program. The Partners provide distance delivery of Rating (occupational) related degrees to sailors worldwide. Vincennes University is providing associate degrees in Business Studies, Electronics Technology and Law Enforcement for ten Navy ratings. The Technology Apprenticeship Option, A.A.S. degree, is available to sailors completing apprenticeships in fourteen civilian trades, representing thirty-six Navy Ratings. VU has entered into a partnership with the Army National Guard Education Support Center to offer a specialized A.A.S. degree in Business Studies for their Recruiting Retention Non-Commissioned Officers.

Vincennes University MEP maintains offices at the following locations.

Fort Benning, Georgia	Naval Station, Bremerton, Washington
NGPEC Camp Robinson, North Little Rock, Arkansas	Naval Submarine Base, Bangor, Washington
Naval Air Facility, El Centro, California	Norfolk-Hampton Roads, Virginia
Naval Air Station North Island, San Diego, California	Regional Coast Guard Station, San Diego, California
Naval Amphibious Base, Coronado, California	US Coast Guard, Island Alameda, CA
Naval Medical Center, Balboa, San Diego, California	Selfridge ANGB, Selfridge, Michigan
	United States Coast Guard Station, Newport, Oregon

The foundation of the program is giving service members access to a college education by combining a variety of learning experiences to work toward completion of an associate and/or a baccalaureate degree. In order to provide increased access to degree completion, we offer the following opportunities for the military student enrolled in our program. Vincennes University offers six (6) one-credit hour weekend courses at various military sites around the country. The purpose of these courses is to update and improve both military and personal skills to aid in military promotion and college success. After successful completion of one course with Vincennes University, the student's military experience will be evaluated using a customized computer program to award college credit based on the American Council on Education's (ACE) Guide. The student will receive a transcript that includes credit received from in-resident courses, experiential learning (military) credit, transfer credit from other accredited colleges, and DANTES and CLEP tests, with proper documentation. They also receive a degree plan (SOCAD, SOCGUARD, SOCNAV, SOCCOAST or SOCMAR agreement), for an associate degree in general studies or one of the partner degrees. Military students' options for completing their degrees through Vincennes University include on-site classes, distance learning courses, and transfer courses from other accredited colleges and universities.

For additional information, contact the Military Education Program, Vincennes University, Vincennes, Indiana 47591, call 812-888-5832 or check the MEP website, [www.vinu.edu/military](http://www.vinu.edu/military), for email addresses for appropriate sites and programs.

**Authorization to Award Degrees in the State of Washington**

Vincennes University is authorized by the Washington Higher Education Coordinating Board (HECB) and meets the requirements and minimum educational standards established for degree-granting institutions under the Degree Authorization Act. Vincennes University is authorized to offer the following programs: Associate of Science in Behavioral Sciences; Associate of Science in Behavioral Sciences-Psychology Concentration; Associate of Science in Behavioral Sciences-Sociology Concentration; Associate of Science in Business Administration; Associate of Applied Science in General Studies; Associate of Applied Science in General Studies-Business Studies; Associate of Science in General Studies; Associate of Applied Science in Law Enforcement Studies Concentration; Associate of Science in Law Enforcement Studies Concentration; and Associate of Science in Hotel/Motel Management. Any person desiring information about the requirements of the Act or the applicability of those requirements to the institution may contact the HECB office at P.O. Box 43430, Olympia, WA 98504-3430.

**Authorization to Award Degrees in the State of Oregon**

Vincennes University is authorized by the State of Oregon to offer and confer the academic degrees following a determination that state academic standards will be satisfied under OAR 583-030. Vincennes University is authorized to offer the following programs: Associate of Science in General Studies and Associate of Applied Science in General Studies. Inquiries concerning the standards or school compliance may be directed to the Office of Degree Authorization, 1500 Valley River Drive, Suite 100, Eugene, Oregon 97401.





# Workforce Development and Community Services

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## Adult Basic Education

Adult Basic Education (ABE) is a federally funded program pursuant to the Adult Education Act. The purpose of the program is to provide opportunities for adults to receive instruction in basic academic skills, practical literacy skills and to complete high school equivalency requirements through the General Education Development (GED) testing program.

Vincennes University Adult Basic Education offers individualized instruction in classes at 24 sites located throughout an eleven county region of Southwestern Indiana. Students seek basic education in order to pursue advanced educational goals, enhance occupational advancement and/or to increase their employability.

## Business and Workforce Assistance Program

The Business and Workforce Assistance Program is a Vincennes University Statewide Services activity designed to provide technical, managerial, and economic development assistance to communities and emerging or existing businesses with the additional responsibility of assisting with their expansion and training needs. The program also maintains the Pathway Assessment Center to help individuals have access to high quality jobs and employers find qualified and motivated workers.

## Off Campus Continuing Education

Vincennes University offers a variety of both credit and non-credit courses which are intended to provide educational opportunities to individuals at select locations within surrounding communities of the Vincennes campus. These courses provide individuals the opportunity to continue their education, improve their present knowledge and skill sets, acquire new skills, and achieve personal enrichment.

**Credit Courses.** Traditional face-to-face courses, taught by Vincennes University faculty, are offered in response to the special needs and interests of area residents at select off campus locations. For information regarding credit courses offered via distance education, please refer to the Continuing Studies/Distance Education section of this catalog or contact the Distance Education office at 812-888-5900 or 800-880-7961.

To view the off campus site locations and schedule of classes, please visit [www.vinu.edu](http://www.vinu.edu). For more information, contact the Off Campus Continuing Education Office at 812-888-4337 or 800-670-1230.

**Non-credit Courses.** Non-credit classes and workshops are offered and/or developed in response to the special needs and interests of area residents at select off campus locations, as well as via the internet. Internet courses are offered through partnerships with Ed 2 Go and Gatlin Education Services. To view the off campus site locations and schedule of classes, please visit [www.vinu.edu](http://www.vinu.edu). For more information, contact the Off Campus Continuing Education Office at 812-888-4337 or 800-670-1230.

**Senior Scholars Program.** Indiana residents sixty years of age or older, retired, not employed full-time, and who have a high school diploma or GED may enroll for credit courses with tuition waived on a space available basis. Books, fees, parking permit charges, and other course expenses are the responsibility of the student.

**Admission and Tuition Information.** For information regarding Admission policies and procedures, please refer to the "Admission and Financial Aid" section of this catalog or contact the Office of Admissions at 800-742-9198.

Junior and senior high school students may enroll in courses if permission is granted by their respective principals or guidance counselors. Forms for granting permission are available in the Advisement Center (812-888-4451) or the Off Campus Continuing Education Office (812-888-4337).

Students wishing to withdraw from the University or drop a credit course should refer to the "Tuition, Fees, and General Expenses" section of this catalog. No refunds are normally given for non-credit courses after the first class meeting. If a course is cancelled due to insufficient enrollment, all tuition and fees are refunded.

## Project EXCEL

Project EXCEL, Indiana's first dual credit/concurrent enrollment program, offers transcribed college credit to eligible high school students who enroll in VU courses offered at their local high school or career/technical center. Project EXCEL is accredited by the National Alliance of Concurrent Enrollment Partnerships (NACEP), a validation of the academic integrity, the program standards, and the student achievement associated with the program. For more information, contact the Project EXCEL office at 812-888-4337 or 800-670-1230 or visit our website at [www.vinu.edu/EXCEL](http://www.vinu.edu/EXCEL).

## Project LINK

Project LINK provides additional opportunities for eligible high school students to enroll and participate in college courses. Courses are taught by Vincennes University professors and are made available through two-way video. High schools may elect to give high school credit in addition to the student receiving college credit from Vincennes University. For more information, contact the Project LINK office at 812-888-4337 or 800-670-1230 or visit our website at [www.vinu.edu/PROJECTLINK](http://www.vinu.edu/PROJECTLINK).

## **Workforce Development Services**

Workforce Development Services (WDS) administers the Workforce Investment Act programs on behalf of Vincennes University in two of the eleven regions in Indiana. Employment and training services are provided to adults, economically disadvantaged youth, and dislocated workers needing assistance to obtain employment leading to self-sufficiency. These services may include assessment, case management, training assistance, supportive services, job search activities, and follow-up.

In Region 8, WDS contracts with the South Central Regional Workforce Board to deliver workforce development services through a network of offices located in Brown, Daviess, Greene, Lawrence, Martin, Monroe, Orange and Owen Counties. Individuals seeking further information about WDS in Region 8 should call 812-888-5291.

In Region 11, WDS contracts with the Grow Southwest Indiana Regional Workforce Board to deliver services through a network of offices and access sites located in Dubois, Gibson, Knox, Perry, and Pike Counties. Individuals seeking further information about WDS in Region 11 should call 812-482-3006.

## **Generations**

Generations is the designated Area Agency on Aging serving Daviess, Dubois, Greene, Knox, Martin and Pike Counties. The program serves people over the age of 60 and their caregivers. Services are designed to provide clients with choices that allow them to maintain their dignity and independence. Generations serves more than 3,000 clients, assisting individuals to remain independent in their homes and contribute to their communities.

Services include: Case Management to assess client service needs, develop care plans and coordinate resources; Nutrition Services to provide nutritious, hot meals through Meals on Wheels home delivery and neighborhood meal sites; Volunteer Services including Knox County Retired and Senior Volunteer Program (RSVP), Tax Counseling for the Elderly and AngelWorx; Link-Age Aging and Disability Resource Center providing information & referral to inform, guide, direct and link individuals to needed and available resources; Pre-Admission Screening to determine the appropriateness of nursing facility placement; Caregiver Program to provide services for family caregivers including educational programs, support group meetings and respite care; Ombudsman to investigate and resolve complaints made by/on behalf of residents of long-term care facilities; and Education to promote lifelong learning, positive aging and an enhanced quality of life for older adults. Generations is also the 2-1-1 Call Center for Knox, Dubois and Greene counties.

For more information about Generations, call 812-888-5880.

## **The Indiana Military Programs (IMP/DFAS)**

**The Indiana Army/Air National Guard Program & Reserve Program (IMP).** The Vincennes University, Indiana Army/Air National Guard Program assists soldiers in the Indiana Army/Air National Guard and Indiana based U.S. Army Reserve units in meeting the newly mandated educational requirements established by the U.S. Congress. A combination of specially developed credit courses and traditional college courses are taught in Indiana Army/Air National Guard and U.S. Army Reserve units.

In addition, Vincennes University offers students evaluation of military occupational specialties (MOS) and service schools, using the Army/American Council on Education Registry Transcript System (AARTS), Sailor/Marine American Council on Education Registry Transcript (SMART) and/or the Community College of the Air Force (CCAF) to establish college credit.

**Defense Finance and Accounting Services (DFAS) Indianapolis Program.** The Defense Finance and Accounting Services (DFAS) program was part of the former Vincennes University Fort Benjamin Harrison Center program that originally started in 1972. DFAS provides free classroom facilities and equipment for Vincennes University courses leading to various associate degree programs. These degree programs include; Accounting, Business Management, Business Administration, General Studies and General Studies with a Business Option. Courses offered at the DFAS are exclusively for Active Duty Military, Department of Defense civilian employees and contractors.

To request college courses in your unit, armory or facility, find out about currently scheduled classes, or for additional information about the Indiana Military Programs, please call 317-381-6006.

### **Statewide Business and Industry Training Program**

The Business and Industry Training Program's mission is to make education and training available to all interested companies throughout the State of Indiana. Curriculum is designed and tailored to meet the training needs of each specific business or industry; incorporating company culture. VU's Business and Industry Training provides quality education and training that produces measurable improvement in job performance of incumbent workers and gives the competitive edge needed to compete in a global market. Classes can be as short as a one day workshop, a certificate program or employees can complete a two year degree. Training programs include, but are not limited to: Supervision, Quality, Industrial Maintenance, Robotics, Certified Nursing Assistant, Computers and the list goes on.

Vincennes University's Business and Industry Training also includes Tractor-Trailer Driver Training. This is an eight-week certificate program which is offered at the Indianapolis Aviation Technology Center in Indianapolis and at the new state-of-the-art Indiana Center for Applied Technology at the Vincennes campus in Vincennes, Indiana. This program is open to the general public and is designed to prepare students to enter the tractor-trailer truck driver training certificate at an entry level driving position.

For more information on Business and Industry Training, interested persons should call one of the following numbers:

Northern	Indiana	574-250-0528
Central	Indiana 317-8	49-5983
Southern	Indiana	812-888-4297
Tractor Trailer Driver	317-381-6029 (Indianapolis), 812-888-5150 (Vincennes)	

### **Veterans Upward Bound**

Funded by a grant from the U.S. Department of Education, Veterans Upward Bound provides free educational services to academically and financially disadvantaged military veterans with the goal of post-secondary enrollment. VUB offices in Indianapolis and Muncie, Indiana, serve 120 veterans who have been honorably or generally discharged and who have completed a minimum of 180 days of active service. The VUB service area includes Marion, Morgan, Shelby, Delaware, Madison, Blackford, Jay, Randolph, and Henry counties. Services include academic preparation and college, career and financial aid counseling.

VUB staff work closely with area schools, employment office veteran's representatives, Veterans Administration staff, and other agencies at both the federal and state levels to ensure program participants receive coordinated academic, career, and financial aid services. Support services continue throughout the veteran's program of study or training. VUB also offers cultural experiences throughout the year that include the Annual Recognition Banquet and trips to area museums.

For more information about Veterans Upward Bound in the Indianapolis area, call (317) 927-9605. In the Muncie area, call (765) 289-1861, ext. 2107.



# Jasper Campus

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Vincennes University Jasper Campus was developed cooperatively by Vincennes University and COHERE, Inc. in February, 1970. COHERE, Inc. (Committee on Higher Education and Related Events) was a Dubois County citizens action group dedicated to the improvement of education and cultural enrichment for the area. It was founded by concerned citizens in 1960 and, having fulfilled its goals, was dissolved in 1978.

Completion of a two-story administration/classroom building in Fall 1974 enabled the Jasper Campus to move from temporary facilities in the central business district of Jasper to its permanent facility on a 130-acre tract south of Jasper on Indiana 162. A new addition completed in 1987 includes classrooms and faculty and administrative offices. Opened in 1987, the downtown campus facility, including both classroom and office space, houses continuing education classes and various federal programs. Alvin C. Ruxer, a Jasper businessman and member of the Vincennes University Board of Trustees, provided funding to construct the Ruxer Student Center, which includes a dining center, gymnasium, weight room, classroom and the Indiana Baseball Hall of Fame. The facility opened in 1990. The Arnold F. Habig Center began holding classes in the Fall of 1998. Named for Jasper businessman and University benefactor, Arnold F. Habig, this addition houses science, computer and technical laboratories. The campus library is also located in this facility. The new Academic Classroom Building, opened in spring of 2007, houses the nursing program, the Academic Support Center, computer labs and classrooms.

The Associate in Arts, Associate in Science, Associate in Applied Science and Bachelor of Science degrees and Certificates of Graduation are awarded through the Jasper Campus in accordance with degree and certificate requirements for graduation listed in this catalog.

The following transfer and occupational programs of study are offered at the Jasper Campus. Plans of study for these programs are on the pages noted. Programs unique to the Jasper Campus (indicated with an \* below) are included in alphabetical order in the pages immediately following.

## *Programs of Study*

Accounting 5250 .....	112
Administrative Office Technology 5590 .....	114
Administrative Concentration 5591 .....	115
Legal Concentration 5592 .....	115
Medical Concentration 5593 .....	115
Banking Certificate 5320* .....	97
Behavioral Sciences 1050 .....	137
Psychology Concentration 1053 .....	139
Sociology Concentration 1054 .....	140
Business Administration 5050 .....	171
Business Management 5360 .....	172
Entrepreneurship Concentration 5361 .....	173
Finance Concentration 5362* .....	173
Marketing Management Concentration 5363 .....	173
Supply Chain and Logistics Concentration 5364 .....	173
Clerical – General Certificate 5606 .....	174
Clerk – Medical Certificate 5610 .....	175
Computer Programming – Database Certificate 5455 .....	185
Computer Programming Technology 5450 .....	186
Computer Programming Technology – Networking Concentration 5451* .....	98

Education, Teacher – Associate Degrees.....	201
Elem  entary Concentration 1100.....	210
Special Education Concentration 1252 ( <i>ICHE Pending for Jasper Campus</i> ).....	224
Education Teacher – B.S. Degrees.....	202
Special Education, Mild Intervention 1000 (B.S.).....	225
General Studies 2250.....	268
General Studies - Business Studies 5900.....	269
General Studies Certificate 2256*.....	99
Health Care Management 6000 (B.S.).....	276
Health Information Management Certificate – Coding or Transcription Concentration 6155*.....	100
Codi  ng Concentration 6156*.....	100
Transcription  Concentration 6157*.....	100
Homeland Security and Public Safety 7000 (B.S.).....	283
Law Enforcement 7500.....	295
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Nursing, Associate Degree 6250.....	348
ADN-RN Completion Concentration for Licensed Practical Nurses 6252.....	352
Nursing, Practical 6350.....	356
Nursing, RN to BSN Completion 6001 (B.S.).....	345
Pharmacy Technician Certificate 4831.....	362
Pharmacy Technician 4832 A.A.S. Degree.....	363
Sales Training Certificate 5551.....	382
Social Work 1500.....	383
Web Publishing and Design Certificate 5453.....	407
Web Site Development for E-Commerce 5752*.....	101

For a Jasper Campus catalog or other information, write to Vincennes University Jasper Campus, 850 College Avenue, Jasper, Indiana 47546, or telephone 812-482-3030.



**BANKING 5320**  
**A One-Year Program Leading to a Certificate of Program Completion**

This program would provide a credential for those individuals who are unable to complete an Associate Degree, but who need verification of training taken in the field of Banking. All FINC prefixed courses are approved by the American Institute of Banking.

	<b>Credit Hours</b>	
BLAW 203 Legal Environment of Business .....	3	<p style="text-align: center;"><i><b>Recommended Sequence of Courses</b></i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p><b>Semester I</b></p> <p>BLAW 203 .....3            FINC 100 .....3            FINC 220 .....3            FINC 230 .....3            Total Hours: 12</p> <hr style="border: 1px solid black;"/> <p><b>Semester II</b></p> <p>COMP 110 .....3            FINC 205 .....3            FINC 245 .....3            MATT 109 .....3            MGMT 100 .....3            Total Hours: 15</p>
COMP 110 Introduction to Computer Concepts .....	3	
FINC 100 Introduction to Financial Institutions .....	3	
FINC 205 Money and Banking .....	3	
FINC 220 Credit and Collections.....	3	
FINC 230 Real Estate Finance .....	3	
FINC 245 Introduction to Investments.....	3	
MATT 109 Business Mathematics .....	3	
MGMT 100 Introduction to Business.....	3	
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**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in ENGL 009 or 011.

**COMPUTER PROGRAMMING TECHNOLOGY – NETWORKING CONCENTRATION 5451**  
**A Two-Year Program Leading to the A.A.S. Degree**

This sequence of courses contains the theory and applications of computer techniques to prepare students for entry-level positions in the field of networking. The rapid expansion of computers into all areas of business requires knowledge of how communications are formed and sent in various methods. Students will complete all university requirements and gain skills in both the hardware and software aspects of the networking field.

	<b>Credit Hours</b>																																																																	
<b>Major Program Requirements</b>	<b>45</b>																																																																	
CNET 240 Web Server Management.....	3	<table border="1"> <tr> <td align="center" colspan="2"><b>Recommended Sequence of Courses</b></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>COMP 110 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 130 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 146 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 175 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>COMP 176 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 215 .....</td> <td align="right">3</td> </tr> <tr> <td>CPNS 170 .....</td> <td align="right">4</td> </tr> <tr> <td>ENGL 108 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 101 .....</td> <td align="right">3</td> </tr> <tr> <td>MGMT 100 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 19</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>COMP 107 .....</td> <td align="right">3</td> </tr> <tr> <td>CPNS 240 .....</td> <td align="right">4</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>PSYC 142 .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td>Dir Econ Elect.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>CNET 240 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 252 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 295(R/W/S) .....</td> <td align="right">3</td> </tr> <tr> <td>CPNS 280 .....</td> <td align="right">4</td> </tr> <tr> <td>Lab Science Elec.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> </table>	<b>Recommended Sequence of Courses</b>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		COMP 110 .....	3	COMP 130 .....	3	COMP 146 .....	3	COMP 175 .....	3	ENGL 101 .....	3	Total Hours: 15		<b>Semester II</b>		COMP 176 .....	3	COMP 215 .....	3	CPNS 170 .....	4	ENGL 108 .....	3	MATH 101 .....	3	MGMT 100 .....	3	Total Hours: 19		<b>Semester III</b>		COMP 107 .....	3	CPNS 240 .....	4	PFWL 100 .....	2	PSYC 142 .....	3	SPCH 143 .....	3	Dir Econ Elect.....	3	Total Hours: 18		<b>Semester IV</b>		CNET 240 .....	3	COMP 252 .....	3	COMP 295(R/W/S) .....	3	CPNS 280 .....	4	Lab Science Elec.....	3	Total Hours: 16	
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COMP 130 Communications and Networking .....	3																																																																	
COMP 146 Personal Computer Configuration.....	3																																																																	
COMP 175 Principles of Computer Programming.....	3																																																																	
COMP 176 Introduction to Visual Programming.....	3																																																																	
COMP 215 Database Management/SQL.....	3																																																																	
COMP 252 Introduction to Java Programming.....	3																																																																	
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<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>																																																																		
<b>Basic Skills Core</b>	<b>9</b>																																																																	
ENGL 101 English Composition I .....	3																																																																	
MATH 101 Intermediate Algebra .....	3																																																																	
SPCH 143 Speech .....	3																																																																	
<i>The Reading, Writing and Speaking Intensive requirements may be met by COMP 295.</i>																																																																		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>																																																																		
<b>Liberal Education Core</b>	<b>14</b>																																																																	
ENGL 108 Technical Writing .....	3																																																																	
PFWL 100 Lifetime Fitness/Wellness .....	2																																																																	
PSYC 142 General Psychology .....	3																																																																	
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Directed Economics Elective – Social Science Core.....	3																																																																	
<i>Computer Skills are enhanced by Major Program Requirements. ___</i>																																																																		
	<b>68</b>																																																																	

**GENERAL STUDIES 2256**  
**A Certificate of Program Completion**

General Studies is a program designed primarily for students who have not selected a specific college educational goal by the time they have entered Vincennes University Jasper Campus. This certificate allows students to experience classes from all three departments on the Jasper Campus and select two other courses according to their individual interests. Graduates of this certificate who ultimately decide to pursue an Associate Degree may enter the General Studies (A.S. or A.A.S.) program with no loss of credit.

	<b>Credit Hours</b>
ENGL 101 English Composition I .....	3
100 Level or Higher Mathematics Course <sup>1</sup> .....	3
Laboratory Science Elective .....	3
Computer Awareness/Literacy Elective .....	1-3
Electives <sup>2</sup> .....	6
—	<b><i>16-18</i></b>

**NOTE:** All students must satisfy the University’s minimal requirements through either placement tests or enrollment in READ 011 and MATH 011, MATT 103, 105 or 109.

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<sup>1</sup> Students interested in later pursuing an A.S. degree should take MATH 101 Intermediate Algebra or higher Mathematics course.

<sup>2</sup> Students should consult with an advisor as to recommended electives.

**HEALTH INFORMATION MANAGEMENT CERTIFICATE 6155**  
**Coding or Transcription Concentration**  
**A One-Year Certificate of Program Completion**

This program will prepare graduates for entry-level employment as health information coding specialists or transcriptionists. Those who complete the program will possess the basic knowledge and skills required to code or transcribe medical documentation with accuracy, clarity, and timeliness. Graduates will understand the principles of professional and ethical conduct in the work place. Upon completion of the certificate, students will be qualified to work in outpatient settings.

The program is designed to serve non-traditional students enrolled in college courses on a part-time basis. It is anticipated that the program will appeal to individuals who are currently employed in a medical or health care setting and who are interested in upgrading their skills in the area of clinical coding or transcription.

**Standards for Progression and Graduation**

Students must complete all Health Information Management (HIMT) and life science (LFSC) courses with a grade of C or above. Failure to meet this requirement will result in a withdrawal of the student from the Health Information Management Certificate program.

	<b>Credit Hours</b>	
ENGL 101 English Composition I .....	3	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p style="text-align: center;"><b>Semester I</b></p> <hr/> <p>ENGL 101 .....3  HIMT 110 .....3  LFSC 107 .....3  LFSC 107L..... 1  Concentration ..... 3  Total Hours: 13</p> <hr/> <p style="text-align: center;"><b>Semester II</b></p> <hr/> <p>SPCH 143 .....3  FNRL 285 .....3  COMP 110 .....3  HIMT 130 .....2  Concentration ..... 3-4  Total Hours: 14-15</p>
FNRL 285 Pathology .....	3	
HIMT 110 Medical Terminology for Allied Health .....	3	
HIMT 130 Medicolegal Aspects of Health Records .....	2	
LFSC 107 Essentials of Human Anatomy and Physiology .....	3	
LFSC 107L Essentials of Human Anatomy and Physiology Laboratory .....	1	
COMP 110 Introduction to Computer Concepts.....	3	
SPCH 143 Speech .....	3	
Coding or Transcription Concentration .....	6- 7	
	<b>27-28</b>	

**NOTE:** All students must satisfy the University’s minimal requirements through either placement tests or enrollment in ENGL 009 or 011, READ 009 and 011, and MATH 011, MATT 103, 105 or 109.

<b>Coding Concentration 6156</b>	<b>7</b>	<b>Transcription Concentration 6157</b>	<b>6</b>
<b>Semester I</b>		<b>Semester I</b>	
MATT 109 Business Mathematics .....	3	HIMT 206 Medical Transcription I.....	3
<b>Semester II</b>		<b>Semester II</b>	
HIMT 201 Medical Coding <sup>1</sup> .....	4	HIMT 207 Medical Transcription II .....	3

<sup>1</sup> HIMT 201 Medical Coding is for outpatient coding only.

**WEB SITE DEVELOPMENT FOR E-COMMERCE 5752**  
**A One-Year Certificate of Program Completion**

This certificate program prepares graduates to qualify for entry-level and/or advanced positions in the field of Web Site Development for E-Commerce. Potential positions available for graduates include but are not limited to job titles such as: Webmaster, Web Designer, Web Developer, Web Editor, and related occupations in the electronic commerce field.

	<b>Credit Hours</b>	
COMP 107 Web Page Design .....	3	<p style="text-align: center;"><b>Recommended Sequence of Courses</b></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p><b>Semester I</b></p> <p>COMP 107 .....3            COMP 110 .....3            COMP 175 .....3            ENGL 101 .....3            MGMT 280 .....3            Total Hours: 15</p> <hr style="border: 1px solid black;"/> <p><b>Semester II</b></p> <p>COMP 113 .....3            COMP 215 .....3            COMP 252 .....3            CWEB 213 .....3            Total Hours: 12</p>
COMP 110 Introduction to Computer Concepts .....	3	
COMP 113 Advanced Web Page Design.....	3	
COMP 175 Principles of Computer Programming.....	3	
COMP 215 Database Management/SQL.....	3	
COMP 252 Introduction to Java Programming.....	3	
CWEB 213 Web-Based Electronic Commerce .....	3	
ENGL 101 English Composition I .....	3	
MGMT 280 Introduction to Marketing .....	3	
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**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in ENGL 009 or ENGL 011.



# Programs of Study

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At Vincennes University there are programs of two general types: those designed specifically for transfer and those designed as occupational programs.

Vincennes University each year undertakes continuing articulation with representatives of Indiana's public colleges and universities. These articulations have proven to be highly effective methods to assure that our college transfer associate degree programs are consistent with the first two years of the baccalaureate degree programs offered by these institutions. These articulation efforts have enabled Vincennes University to experience a long history of success in transferring academic credits to these institutions.

Students are reminded, however, that several factors may affect credit transfer, including: Grades earned in courses completed for transfer, with most colleges requiring grades of C or higher in order for the course credits to transfer; applicability of courses in the curriculum at the receiving institution; and, degree requirements of the receiving institution. The receiving institution makes the final decision regarding the acceptance and application of transfer course credits.

Vincennes University offers Occupational Workforce Development programs through several instructional divisions. A principal purpose of these programs is to develop in graduates the technical knowledge, skills and attitudes needed for successful job entry, continued employment and advancement. Several of these programs have also been articulated with four-year institutions which allow graduates of these programs to pursue baccalaureate degrees in selected fields of study. Long-range planning and guidance from business and industry leaders have helped provide the modern equipment and relevancy found in Vincennes University Occupational programs.

Students are reminded, however, that several factors may affect job placement, including: Geographical distribution of job availability; the state of the economy; the individual student's record of academic achievement; and, the employer's perception of the student's abilities. Clearly, decisions relative to employment are always the employer's.

The occupational programs are technically and vocationally oriented curricula designed primarily for students who plan to enter employment immediately upon graduation. Some students, however, choose to continue their education at a transfer institution.

***In addition, many VU occupational programs have articulation opportunities with the following Universities: Ball State University, Indiana State University, Indiana University-Purdue University--Indianapolis, Purdue University, Eastern Kentucky University, Ferris State University, Murray State University, Southern Illinois University, and Western Kentucky University. Please see your program/major advisor for specific information about these opportunities.***

### **Bachelor Degree-Completion (DegreeLink)**

DegreeLink is a Vincennes University-Indiana State University Partnership program that enables VU students (and graduates) to transfer VU associate degrees to ISU and complete selected ISU bachelor of science degrees.

Students have the option of completing their bachelor degrees on the ISU campus located in Terre Haute, Indiana – or via distance learning. In addition, selected ISU bachelor degree-completion programs are offered on the Vincennes campus through a combination of on-campus (VU) and distance learning.

The following chart shows which VU degrees “link” to ISU bachelor of science degrees. Course-by-course credit transfer is possible for “nonlinking” degrees earned from VU.

<b>Vincennes University Program</b>	<b>Transfer To</b> →	<b>Indiana State University Program</b>
A.S. in Architectural or Industrial Drafting		B.S. in Mechanical Design Technology
A.S. in Business Administration		B.S. in Business Administration
A.S. in Business Administration		B.S. in Insurance
A.S. in Corrections <b>or</b> Law Enforcement		B.S. in Criminology
A.S. in Electronics Technology		B.S. in Electronics Technology
A.S. in Nursing		B.S. in Nursing
A.A.S., A.S. or A.A. in <b>any</b> program		B.S. in Human Resource Development
A.A.S., A.S. or A.A. in <b>any</b> program		B.S. in Career and Technical Education
A.A.S. or A.S. in any industrial technical program		B.S. in Industrial Supervision
A.S. in any technology-related program		B.S. in Industrial Technology

In addition to the bachelor degree-completion opportunities available through DegreeLink (above), transfer agreements link over 60 VU programs to ISU bachelor degrees offered on the ISU campus. For information and assistance, contact the ISU Enrollment Services Coordinator, located in the Welsh Administration Building 135, at 812-888-6003. Visit DegreeLink on the web at [www.indstate.edu/degree/link/VU](http://www.indstate.edu/degree/link/VU).

### **BridgeBack to ISU**

BridgeBack to ISU is a Vincennes University–Indiana State University partnership program for high school graduates who were unsuccessful in their initial request for admission to Indiana State University. This program offers those students an excellent opportunity to strengthen skills and prepare for future success at Indiana State University.

For information on program requirements, contact the ISU Enrollment Services Coordinator, located in the Welsh Administration Building 135, at 812-888-6003.

### **Course Requirements**

In order that the student may plan his or her program, plans of study are listed for all curricula on the pages immediately following. Special transfer requirements may need to be considered in addition to degree requirements.

Students are strongly urged to consult the catalogs of institutions to which they intend to transfer. Students who intend to transfer to Indiana State University should contact the ISU Enrollment Services Coordinator, located in the Welsh Administration Building 135, at 812-888-6003. Careful planning will minimize transfer problems.

Students should not necessarily expect to complete Vincennes University programs in four consecutive semesters as suggested by the recommended sequence on the following program outlines. If any developmental courses are necessary to prepare the student for courses required in the program or if the student enters a program consisting of sequential courses other than at the beginning of the fall semester, this is particularly true. Enrolling in summer school classes might well be an option a student might consider if they wish to complete their university program in two years.



For the benefit of working students and students who are parents, it is recommended that they enroll in no more than nine hours per semester.

*Vincennes University will provide accessibility to handicapped students in its academic and vocational programs by insuring their enrollment in sections of programs which are accessible. Students having questions about enrollment in any courses in these programs should contact the University's Coordinator of Disabled Students Services, Vigo Hall, Vincennes University or telephone 812-888-4501.*

**Dual Admission**

Dual Admission is a Vincennes University –Indiana State University partnership program that allows students to be admitted to VU and ISU at the same time. Dual admission is ideal for students who plan to transfer a Vincennes University associate degree or certificate program and complete a bachelor degree at Indiana State University.

Dual admission guarantees VU students maximum credit transfer and admission to ISU programs for which they are eligible—if the associate degree or technical certificate is completed at Vincennes University. For more information, contact the VU Admissions Office or the ISU Enrollment Services Coordinator, located in the Welsh Administration Building 135, at 812-888-6003.

**ISU Enrollment Services Coordinator (VU Campus Office)**

The Indiana State University (ISU) Enrollment Services Coordinator offers Vincennes University students (and graduates) assistance and information on ISU degrees and transfer programs—including VU-ISU partnership programs listed in this catalog: BridgeBack to ISU; Dual Admission; and DegreeLink (bachelor degree-completion programs). To request information or schedule an appointment, contact the ISU Enrollment Services Coordinator, located in the Welsh Administration Building 135, at 812-888-6003 or 866-647-6710 (toll free).

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<sup>DL</sup>This program is also available as part of “DegreeLink” with ISU.

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<sup>DL</sup>This program is also available as part of “DegreeLink” with ISU.

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<sup>DL</sup>This program is also available as part of “DegreeLink” with ISU.

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**ACCOUNTING 5250**  
**A Two-Year Program Leading to the A.A.S. Degree**

This career program in accounting is specifically designed to prepare students for positions as junior accountants, accounting clerks, bookkeepers, accounting trainees, and office managers. The program balances the specialty in accounting with management, business law, and computer courses, in addition to the general education support courses. Accounting majors must obtain a minimum grade of C in each accounting course to receive the A.A.S. degree in Accounting.

	<b>Credit Hours</b>
<b>Major Program Requirements</b>	
<b>44-45</b>	
ACCT 140 Introduction to General Ledger/Inventory .....	1
ACCT 141 Introduction to Accounts Payable .....	1
ACCT 142 Introduction to Accounts Receivable .....	1
ACCT 143 Introduction to Payroll .....	1
ACCT 201 Principles of Accounting I .....	3
ACCT 202 Principles of Accounting II .....	3
ACCT 255 Income Tax Accounting .....	3
ACCT 291 Accounting Software Applications .....	3
ACCT 295 Individual Income Tax Preparation .....	3
ACCT 292 Accounting Cases and Problems .....	2
BLAW 203 Legal Environment of Business .....	3
COMP 110 Introduction to Computer Concepts .....	3
MGMT 100 Introduction to Business .....	3
MGMT 275 Fundamentals of Finance .....	3
MGMT 293 Integrated Business Project .....	3
OADM 233 Spreadsheets .....	3
OADM 234 Databases .....	3
Business Elective .....	2-3

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition I .....	3
MATT 109 Business Mathematics -or-	
MATH 101 Intermediate Algebra .....	3
SPCH 143 Speech .....	3

*The Reading, Writing and Speaking Intensive requirements may be met by BLAW 203.  
The Mathematics Intensive requirements may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

**Liberal Education Core**

**14-15**

ECON 201 Microeconomics .....	3
ENGL 205 Business Communications .....	3
PFWL 100 Lifetime Fitness/Wellness .....	2
PSYC 142 General Psychology .....	3
Laboratory Science Elective – Common Core List .....	3-4

*Computer Skills are enhanced by Major Program Requirements.*

**67- 69**

<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
<b>Semester I</b>
ACCT 140 ..... 1
ACCT 141 ..... 1
ACCT 142 ..... 1
COMP 110 ..... 3
ENGL 101 ..... 3
MATT 109/ MATT 101 ..... 3
MGMT 100 ..... 3
Total Hours: 15
<b>Semester II</b>
ACCT 143 ..... 1
ACCT 291 ..... 3
ENGL 205 ..... 3
OADM 233 ..... 3
PFWL 100 ..... 2
PSYC 142 ..... 3
SPCH 143 ..... 3
Total Hours: 18
<b>Semester III</b>
ACCT 201 ..... 3
ACCT 255 ..... 3
BLAW 203(RWS) ..... 3
ECON 201 ..... 3
OADM 234 ..... 3
Business Elec ..... 2-3
Total Hours: 17-18
<b>Semester IV</b>
ACCT 202 ..... 3
ACCT 292 ..... 2
ACCT 295 ..... 3
MGMT 275 ..... 3
MGMT 293 ..... 3
Lab Science Elec ..... 3-4
Total Hours: 17-18



**ACCOUNTING CERTIFICATE 5251**  
**A Certificate of Program Completion**

This program provides students with a broad range of technical skills directed toward the accounting function of business. Its primary emphasis would concentrate on the technical skills to successfully administer the accounting function for a small to medium-sized business. This certificate would also provide a basis for continuing study toward the A.A.S. degree in Accounting.

	<b>Credit Hours</b>
ACCT 100 Basic College Accounting -or-	
ACCT 201 Principles of Accounting I .....	3
ACCT 140 Introduction to General Ledger/Inventory .....	1
ACCT 141 Introduction to Accounts Payable .....	1
ACCT 142 Introduction to Accounts Receivable .....	1
ACCT 143 Introduction to Payroll .....	1
ACCT 296 Accounting Cases & Problems .....	2
ACCT 291 Accounting Software Applications .....	3
ENGL 101 English Composition I .....	3
MATT 109 Business Mathematics .....	3
OADM 233 Spreadsheets .....	3
OADM 266 Professional Business Image .....	3
SPCH 143 Speech .....	3
Approved Elective .....	2
	<b>29</b>

<i>Recommended Sequence of Courses</i>	
(This sequence assumes any necessary developmental requirements have been met.)	
Semester I	
ACCT 140 .....	1
ACCT 141 .....	1
ACCT 142 .....	1
ENGL 101 .....	3
MATT 109 .....	3
OADM 233 .....	3
SPCH 143 .....	3
Total Hours: 15	
Semester II	
ACCT 100/201 .....	3
ACCT 143 .....	1
ACCT 296 .....	2
ACCT 291 .....	3
OADM 266 .....	3
Elective .....	2
Total Hours: 14	

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or placement in ENGL 009 or 011 and READ 009 and 011.

**ADMINISTRATIVE OFFICE TECHNOLOGY 5590**  
**A Two-Year Program Leading to the A.A.S. Degree**

This program is structured to permit graduates to complete many of the education requirements set forth by the Professional Secretaries International for the Certified Professional Secretarial (CPS) Examination. Courses include computer concepts and applications, business law, economics, accounting, and principles of management, as well as the various recommended secretarial skill subjects and word processing. Students will have an opportunity to take the Microsoft Office User Certification exams (additional fee required).

<b>Major Program Requirements<sup>1</sup></b>	<b>Credit Hours</b>	<i>Recommended Sequence of Courses (This sequence assumes any necessary develop- mental requirements have been met.)</i>
	<b>44-48</b>	
ACCT 100 Basic College Accounting .....	3	
ACCT 206 Payroll Accounting .....	3	
COMP 107 Web Page Design -or-		
COMP 110 Introduction to Computer Concepts .....	3	
MGMT 100 Introduction to Business.....	3	
OADM 100 Keyboarding I -and/or-		
OADM 150 Keyboarding II -and/or-		
OADM 210 Advanced Communication Tools <sup>2</sup> .....	3-7	
OADM 155 Records Management .....	3	
OADM 161 Word Processing .....	3	
OADM 215 Machine Transcription .....	2	
OADM 232 Presentation Software .....	3	
OADM 233 Spreadsheets .....	3	
OADM 234 Databases .....	3	
OADM 260 Office Management .....	3	
OADM 261 Integrated Business Software.....	3	
OADM 266 Professional Business Image .....	3	
OADM 269 Office Professional Seminar .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b> <span style="float: right;"><b>9</b></span>		
ENGL 101 English Composition I .....	3	
MATT 109 Business Mathematics.....	3	
SPCH 148 Interpersonal Communications .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by OADM 260. The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b> <span style="float: right;"><b>14-15</b></span>		
ENGL 107 Business English .....	3	
PFWL 100 Lifetime Fitness/Wellness -or-		
PFWL 115 Concepts in Wellness -and-		
HLTH 215 First Aid .....	2-3	
PSYC 142 General Psychology .....	3	
Laboratory Science Elective – Common Core List .....	3	
Social Science Elective – Core List .....	3	
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>		
<b>Total Cr Hrs..... 68-73</b>		

<b>Semester I</b>	
ENGL 101 .....	3
MATT 109 .....	3
MGMT 100 .....	3
OADM 100 or 150 .....	2
OADM 161 .....	3
PFWL 100 or PFWL 115/ HLTH 215 .....	2-3
Total Hours:	16-17
<b>Semester II</b>	
COMP 107 or 110 .....	3
ENGL 107 .....	3
OADM 150 or 210 .....	2-3
OADM 155 .....	3
SPCH 148 .....	3
Lab Science Elec. ....	3
Total Hours:	17-18
<b>Semester III</b>	
ACCT 100 .....	3
OADM 210 .....	0-3
OADM 215 .....	2
OADM 232 .....	3
OADM 233 .....	3
OADM 234 .....	3
PSYC 142 .....	3
Total Hours:	17-20
<b>Semester IV</b>	
ACCT 206 .....	3
OADM 260(R/W/S) .....	3
OADM 261 .....	3
OADM 266 .....	3
OADM 269 .....	3
Social Science Elec. ....	3
Total Hours:	18

(Continued on the following page)

<sup>1</sup> Some courses listed as Major Program Requirements will be replaced by courses listed in a concentration.

<sup>2</sup> Placement will take place at initial advising.

**Courses in Concentrations:**

<b>Administrative Concentration 5591</b>	<b>9</b>
ACCT 201 Principles of Accounting I .....	3
ACCT 291 Accounting Software Applications .....	3
BLAW 203 Legal Environment of Business .....	3
<b>Legal Concentration 5592</b>	<b>8</b>
BLAW 203 Legal Environment of Business .....	3
OADM 235 Legal Transcription .....	2
PARA 160 Civil Procedures.....	3
<b>Medical Concentration 5593</b>	<b>11</b>
OADM 170 Medical Terminology .....	3
OADM 219 Medical Transcription .....	2
OADM 230 Medical Insurance Billing .....	3
OADM 231 Advanced Medical Insurance Billing .....	3

**Recommended Sequence of Courses for Concentration Areas follow: (Each sequence assumes any necessary developmental requirements have been met.)**

ADMINISTRATIVE 5591	LEGAL 5592	MEDICAL 5593
<b>Semester I</b>	<b>Semester I</b>	<b>Semester I</b>
COMP 107 or 110 .....3	ACCT 100 .....3	ENGL 101 .....3
ENGL 101 .....3	ENGL 101 .....3	MATT 109 ..... 3
MATT 109 .....3	MATT 109 .....3	OADM 100 or 150.... 2
OADM 100 or 150 ....2	OADM 100 or 150 ....2	OADM 161 .....3
OADM 161 .....3	OADM 161 .....3	OADM 170 ..... 3
PFWL 100 or PFWL	PFWL 100 or PFWL	PFWL 100 or PFWL
115/ HLTH 215. <u>2-3</u>	115/ HLTH 215. <u>2-3</u>	115/ HLTH 215. <u>2-3</u>
Total Hours: 16-17	Total Hours: 16-17	Total Hours: 16-17
<b>Semester II</b>	<b>Semester II</b>	<b>Semester II</b>
ACCT 201 .....3	ENGL 107 .....3	ACCT 100 .....3
ENGL 107 .....3	OADM 150 or 210. 2-3	ENGL 107 .....3
OADM 150 or 210. 2-3	OADM 155 .....3	OADM 150 or 210.. 2-3
OADM 155 .....3	PARA 160 .....3	OADM 155 .....3
SPCH 148 .....3	SPCH 148 .....3	OADM 219 ..... 2
Lab Science Elec. <u>3</u>	Lab Science Elec. <u>3</u>	SPCH 148 ..... 3
Total Hours: 17-18	Total Hours: 17-18	Lab Science Elec. <u>3</u>
		Total Hours: 19-20
<b>Semester III</b>	<b>Semester III</b>	<b>Semester III</b>
BLAW 203 .....3	BLAW 203 .....3	OADM 210 ..... 0-3
OADM 210 ..... 0-3	OADM 210 ..... 0-3	OADM 230 ..... 3
OADM 215 .....2	OADM 215 .....2	OADM 232 ..... 3
OADM 232 .....3	OADM 232 .....3	OADM 233 .....3
OADM 233 .....3	OADM 233 .....3	OADM 234 ..... 3
OADM 234 .....3	OADM 234 .....3	PSYC 142 ..... <u>3</u>
PSYC 142 ..... <u>3</u>	PSYC 142 ..... <u>3</u>	Total Hours: 15-18
Total Hours: 17-20	Total Hours: 17-20	
<b>Semester IV</b>	<b>Semester IV</b>	<b>Semester IV</b>
ACCT 291 .....3	OADM 235 .....2	OADM 231 ..... 3
OADM 260(R/W/S) ...3	OADM 260(R/W/S) ...3	OADM 260(R/W/S) ... 3
OADM 261 .....3	OADM 261 .....3	OADM 261 ..... 3
OADM 266 .....3	OADM 266 .....3	OADM 266 ..... 3
OADM 269 .....3	OADM 269 .....3	OADM 269 ..... 3
Social Science Elec. <u>3</u>	Social Science Elec. <u>3</u>	Social Science Elec. <u>3</u>
Total Hours: 18	Total Hours: 17	Total Hours: 18
<b>Total Cr Hrs.....68-73</b>	<b>Total Cr Hrs..... 67-72</b>	<b>Total Cr Hrs..... 68-73</b>

**ADVANCED CULINARY TECHNIQUES 7251**  
**A Certificate of Program Completion**

This program is designed for those who already have basic culinary skills and wish to explore more advanced culinary techniques in areas of pastry, presentation, and more. This program is designed as an intensive program for students who have completed an A.S. or A.A.S. in Culinary Arts.

	Credit Hours	
CULN 230 Nutrition for the Food Service Professional .....	3	<p style="text-align: center;"><i><b>Recommended Sequence of Courses</b></i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 0.5px solid black;"/> <p><b>Semester I</b></p> <p>CULN 230 .....3            CULN 280..... 9            Total Hours: 12</p> <hr style="border: 0.5px solid black;"/> <p><b>Semester II</b></p> <p>CULN 250 .....3            CULN 281 .....9            Total Hours: 12</p>
CULN 250 Off-Site Catering .....	3	
CULN 280 Advanced Culinary Techniques I.....	9	
CULN 281 Advanced Culinary Techniques II.....	9	
	<b>24</b>	

**ADVANCED QUALITY MANAGEMENT 5651**  
**A Certificate of Program Completion**

This certificate exposes students to managerial methods and concepts that address the challenges facing today's organizations. Traditional managerial topics will be augmented with contemporary concepts in the areas of management, teambuilding, human resource development, benchmarking, operations management, creative problem solving, and quality management.

	Credit Hours	
MGMT 305 Principles of Management .....	3	<p style="text-align: center;"><i><b>Recommended Sequence of Courses</b></i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 0.5px solid black;"/> <p><b>Semester I</b></p> <p>MGMT 305 .....3            MGMT 341 .....3            MGMT 433 .....3            PRDM 357 .....3            TECH 455 .....3            Total Hours: 15</p>
MGMT 341 Human Resource Management .....	3	
MGMT 433 Organizational Management .....	3	
PRDM 357 Total Quality Management .....	3	
TECH 455 Problem Solving .....	3	
	<b>15</b>	

**NOTE:** All students must have junior standing to enter this program.

**AGRIBUSINESS 5300**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This program provides opportunities in off-farm agricultural operations. Major emphasis is upon agribusiness operations, marketing, sales and processing of farm products.

		Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>		<b>42</b>	<b>36</b>		
ACCT 100	Basic College Accounting -or-				
ACCT 201	Principles of Accounting I .....	3	3	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
AGBS 101	Agribusiness Industries .....	3	3		
AGBS 152	Agricultural Sales .....	3	3		
AGBS 254	Nutrient Management .....	3	3		
AGBS 260	Introduction to Precision Ag .....	3	3		
AGBS 264	Agribusiness Operations .....	3	3		
AGRI 101	Introductory Agricultural Business and Economics .....	3	3	<b>Semester I</b>	<b>Semester I</b>
AGRI 104	Crop Production .....	3	3	AGBS 101 .....	AGBS 101 .....
BLAW 203	Legal Environment of Business .....	3	3	ENGL 101 .....	ENGL 101 .....
COMP 110	Introduction to Computer Concepts .....	3	3	SPCH 143 .....	HORT 130 .....
COMP 201	The Computer in Business .....	-	3	HORT 130 .....	MATH 101 .....
HORT 130	Crop Pest Management .....	3	3	Soc Sci Elec .....	SPCH 143 .....
MGMT 250	Introduction to Management .....	3	3	Total Hours: 15	Total Hours: 15
	Agricultural Elective .....	3	-	<b>Semester II</b>	<b>Semester II</b>
	Diesel Elective .....	3	-	AGBS 152(R/W/S) ..	AGBS 152(R/W/S) ..
<b>General Education Requirements</b>				AGRI 104(S) .....	AGRI 104(S) .....
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				COMP 110 .....	COMP 201 .....
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>	LFSC 101 .....	ENGL 102/205 .....
ENGL 101	English Composition I .....	3	3	MATT 109 .....	Lab Sci Elec .....
MATT 109	Business Mathematics (or higher mathematics) .....	3	-	PFWL 100 .....	3-4
MATH 101	Intermediate Algebra (or higher mathematics) .....	-	3	Total Hours: 18	Total Hours: 15-16
SPCH 143	Speech .....	3	3	<b>Semester III</b>	<b>Semester III</b>
<i>The Reading Intensive requirement may be met by AGBS 152 or AGBS 264 or BLAW 203.</i>				AGBS 254 .....	AGBS 254 .....
<i>The Writing Intensive requirement may be met by AGBS 152 or AGBS 264 or AGRI 103 or BLAW 203.</i>				AGBS 260 .....	AGBS 260 .....
<i>The Speaking Intensive requirement may be met by AGBS 152 or AGBS 264 or AGRI 104 or BLAW 203.</i>				AGRI 103(W) .....	AGRI 103(W) .....
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>				Agricultural Elec .....	MGMT 250 .....
<b>Liberal Education Core</b>		<b>15</b>	<b>20-21</b>	MGMT 250 .....	Humanities Elec .....
AGRI 103	Fundamentals of Horticulture .....	3	3	Diesel Elective .....	Soc Sci Elec .....
ENGL 102	English Composition II -or-			Total Hours: 18	Total Hours: 18
ENGL 205	Business Communications .....	-	3	<b>Semester IV</b>	<b>Semester IV</b>
HIST 139	American History I -or-			ACCT 100/201 .....	ACCT 100/201 .....
	Social Science Elective—Core List .....	3	3	AGBS 264(R/W/S) ..	AGBS 264(R/W/S) ..
LFSC 101	Plant and Animal Biology .....	4	-	AGRI 101 .....	AGRI 101 .....
PFWL 100	Lifetime Fitness/Wellness .....	2	2	BLAW 203(R/W/S) ..	BLAW 203(R/W/S) ..
	Humanities Elective—Common Core List .....	-	3	HIST 139/Soc	PFWL 100 .....
	Laboratory Science Elective--Common Core List .....	-	3-4	Sci Elec .....	HIST 139/Soc
	Social Science Elective(s)--Core List .....	3	3	Total Hours: 15	Sci Elec .....
<i>Computer Skills are enhanced by AGBS 254 and AGBS 260.</i>					Total Hours: 17

**AGRIBUSINESS CERTIFICATE 5302**  
**A One-Year Certificate of Program Completion**

This certificate will expose students to agribusiness concepts and skills to meet the challenges facing the agricultural community. Agribusiness basics will be enhanced with new concepts and technology.

**Major Program Requirements**

	Credit Hours
AGBS 101 Agribusiness Industries .....	3
AGBS 152 Ag Sales .....	3
AGBS 254 Fertilizers .....	3
AGBS 260 Introduction to Precision Ag .....	3
AGBS 264 Agribusiness Operations .....	3
Approved Electives <sup>1</sup> .....	9
	<b>24</b>

<i>Recommended Sequence of Courses</i>	
(This sequence assumes any necessary developmental requirements have been met.)	
Semester I	
AGBS 101 .....	3
AGBS 254 .....	3
AGBS 260 .....	3
Electives .....	3
Total Hours: 12	
Semester II	
AGBS 152 .....	3
AGBS 264 .....	3
Electives .....	6
Total Hours: 12	

**NOTE:** All students must satisfy the University's minimal requirements through placement tests or enrollment in ENGL 009 or 011, READ 009 and 011, and MATH 011, MATT 103, 150 or 109.

<sup>1</sup> Approved electives include AGBS Electives, AGR Electives, MGMT Electives, EARTH 111 Introduction to Remote Sensing, and EARTH 112 Geographic Information Systems (GIS).

**AMERICAN SIGN LANGUAGE 2030**  
**(Available at Indiana School for the Deaf, Indianapolis)**  
**A Two-Year Transfer Program Leading to the A.A. Degree**

American Sign Language is an intensive two-year program designed to prepare students to pursue a baccalaureate degree in American Sign Language interpreting. It will also serve as a foundation in several fields in the area of services for deaf persons: education, rehabilitation, social work, and counseling.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>30</b>	
ASLG 111 The Deaf Community.....	3	
ASLG 201 American Sign Language III .....	5	
ASLG 203 American Sign Language IV .....	5	
ASLG 206 American Sign Language Grammar .....	3	
ASLG 207 American Deaf Culture .....	3	
ASLG 215 Careers in American Sign Language.....	2	
ASLG 220 Linguistic Structure of American Sign Language.....	3	
ENGL 249 Elements of General Linguistics .....	3	
ENGL 250 English Grammar .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by ASLG 207.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>	<b>28</b>	
ASLG 101 American Sign Language I.....	5	
ASLG 103 American Sign Language II .....	5	
ENGL 102 English Composition II .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PHIL 212 Introduction to Ethics.....	3	
PSYC 142 General Psychology .....	3	
SOCL 164 Introduction to Multicultural Studies .....	3	
Laboratory Science Elective – Common Core List .....	4	
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>		
	<b>67</b>	

<i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
ASLG 101 .....	5
ASLG 111 .....	3
ENGL 101 .....	3
ENGL 250 .....	3
SPCH 143 .....	3
Total Hours: 17	
<b>Semester II</b>	
ASLG 103 .....	5
ASLG 215 .....	2
ENGL 102 .....	3
PFWL 100 .....	2
PSYC 142 .....	3
Total Hours: 15	
<b>Semester III</b>	
ASLG 201 .....	5
ASLG 206 .....	3
ENGL 249 .....	3
MATH 101 .....	3
SOCL 164 .....	3
Total Hours: 17	
<b>Semester IV</b>	
ASLG 203 .....	5
ASLG 207(R/W/S) .....	3
ASLG 220 .....	3
PHIL 212 .....	3
Lab Science Elec .....	4
Total Hours: 18	

**ARCHITECTURAL STUDIES TECHNOLOGY/CAD 8300**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

Graduates of this program may be employed as entry-level Architectural Technicians within architectural and/or engineering firms, residential design firms, campus planning, city planning or zoning offices and other governmental agencies. Opportunities also include, construction management and supervision positions, building inspection, kitchen, bath and furniture design companies or architectural/construction product sales, and teaching in a technical school or program. PC/CAD skills are an integral part of this program. There are a variety of four-year transfer programs.

		Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>		<b>47</b>	<b>47</b>		
ARCH 110	Fundamentals of Architectural Drawing ...	5	5	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  ARCH 110 .....5 ARCH 130 .....3 ARCH 141 .....4 ENGL 101 .....3 MATT 106 .....3 Total Hours: 18  <b>Semester II</b>  ARCH 160 .....5 ARCH 161 .....4 MATT 107(M) .....3 SURV 100/181 .....3 Hum/Sci/Soc Sci/ Writing Elect .....3 Total Hours: 18  <b>Semester III</b>  ARCH 221 .....4 ARCH 241 .....5 ARCH 271/281 .....4 PFWL 100 or PFWL 115/ HLTH 211 .....2-3 SPCH 143 .....3 Total Hours: 18-19  <b>Semester IV</b>  ARCH 272/282(S) ...4 ARCH 291(R/W/S) ..6 HIST 155(R/W) .....3 PHYT 101 .....4 Total Hours: 17	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  ARCH 110 .....5 ARCH 130 .....3 ARCH 141 .....4 ENGL 101 .....3 MATH 102/ 104(M) .....3 Total Hours: 18  <b>Semester II</b>  ARCH 160 .....5 ARCH 161 .....4 SURV 100/181 .....3 Hum/Sci/Math Elective .....3 Soc Sci Elec .....3 Total Hours: 18  <b>Semester III</b>  ARCH 221 .....4 ARCH 241 .....5 ARCH 271/281 .....4 ENGL 102 .....3 PFWL 100 or PFWL 115/ HLTH 211 .....2-3 SPCH 143 .....3 Total Hours: 21-22  <b>Semester IV</b>  ARCH 272/282(S) ...4 ARCH 291(R/W/S) ..6 HIST 155(R/W) .....3 PHYS 105/105L or PHYT 101 .....4-5 Humanities Elec .....3 Total Hours:20-21
ARCH 130	Architectural Rendering and Illustration...	3	3		
ARCH 141	Introduction to Architectural CAD .....	4	4		
ARCH 160	Architectural Working Drawing .....	5	5		
ARCH 161	Architectural Computer-Aided Drawing...	4	4		
ARCH 221	Advanced Architectural Software Applications .....	4	4		
ARCH 241	Intermediate Architectural CAD .....	5	5		
ARCH 271	Design I -or-				
ARCH 281	Advanced Design I.....	4	4		
ARCH 272	Design II -or-				
ARCH 282	Advanced Design II .....	4	4		
ARCH 291	Advanced Architectural CAD .....	6	6		
SURV 100	Surveying Fundamentals -or-				
SURV 181	Site Surveying and Planning <sup>1</sup> .....	3	3		
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the General education and assessment requirements.</i>					
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>		
ENGL 101	English Composition I .....	3	3		
MATH 102	College Algebra -or-				
MATH 104	Trigonometry .....	-	3		
MATT 106	Applied Mathematics II <sup>1</sup> .....	3	-		
SPCH 143	Speech .....	3	3		
<p><i>The Reading and Writing requirements may be met by ARCH 291 or HIST 155.</i></p> <p><i>The Speaking Intensive requirement may be met by ARCH 291 or ARCH 272 or ARCH 282.</i></p> <p><i>The Mathematics Intensive requirement may be met by MATT 107 for A.A.S. or MATH 102 or MATH 104 for A.S. or by passing a mathematics assessment examination.</i></p>					
<b>Liberal Education Core</b>		<b>15-16</b>	<b>21-23</b>		
ENGL 102	English Composition II .....	-	3		
HIST 155	Survey of Architectural History .....	3	3		
MATT 107	Applied Mathematics III <sup>1</sup> .....	3	-		
PFWL 100	Lifetime Fitness/Wellness -or-				
PFWL 115	Concepts in Wellness -and-				
HLTH 211	First Aid .....	2-3	2-3		

(Continued on the following page)

<sup>1</sup> Students that will double major in Surveying Technology are encouraged to take PHYS 218 for PHYT 101, substitute MATH 102 and MATH 104 for MATT 106 and MATT 107, and complete SURV 125 and SURV 165 by the end of their second year in the Architectural program.



PHYS 105 General Physics I -and-		
PHYS 105L General Physics Laboratory I -or-		
PHYT 101 Technical Physics <sup>1</sup> .....	-	4-5
PHYT 101 Technical Physics <sup>1</sup> .....	4	-
Humanities Elective – Common Core List .....	-	3
Social Science Elective – Core List .....	-	3
Humanities or Science/Mathematics Elective – Broad Core List <sup>1</sup> .....	-	3
One course from one of the following areas:		
Humanities or Science – Broad Core List -or-		
Social Science or Writing – Core List .....	3	-

*Computer Skills are enhanced by ARCH 141. \_*

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<sup>1</sup> MATH 104 is recommended if MATH 102 was selected to satisfy the Basic Skills Core Requirement.

**ART – DESIGN (GRAPHIC DESIGN/VISUAL COMMUNICATION EMPHASIS) 2100  
TRANSFER**

**A Two-Year Program Leading to the A.S. Degree**

Graphic Design is a specific field in which a “graphic designer” employs image and type to organize visual elements and text effectively and clearly using a concept. Visual Communication is a more general field in which a “designer” uses letterform and visual elements, such as color and shape, to communicate visually and verbally a specific message. A “graphic artist” then mechanically reproduces the art made by design artists for mass printing. The intent of this visual arts program is to function as the first two foundation years of a four- or five-year “design” curricula at another institution after completing the A.S. degree requirements. This program may be used as the basis for many design specific fields, such as commercial art, computer graphics, web design, product design, display design, surface design, and corporate identity design. Continuation toward an advanced degree such as a B.F.A. or M.F.A., highly enhances one's career opportunities in design. Vincennes University is an accredited member of the National Association of Schools of Art and Design.

	<b>Credit Hours</b>
<b>Major Program Requirements</b>	<b>42</b>
ARTT 111 Two-Dimensional Design .....	3
ARTT 112 Color and Design .....	3
ARTT 114 Three-Dimensional Design .....	3
ARTT 116 Drawing I .....	3
ARTT 117 Drawing II .....	3
ARTT 130 Art History I--Pre-history to 1500.....	3
ARTT 131 Art History II--1500 to Present .....	3
ARTT 140 Computer Art and Design .....	3
ARTT 203 Graphic Design I .....	3
ARTT 211 Art Portfolio Development .....	2
ARTT 212 Art Portfolio Assessment .....	1
ARTT 220 Photography I.....	3
ARTT 232 History of Design -or- 200-Level Studio Elective .....	3
200-Level Studio Electives .....	6
<b>General Education Requirements</b>	
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>	
<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition I .....	3
MATH 101 Intermediate Algebra (or higher mathematics) .....	3
SPCH 143 Speech -or-	
SPCH 148 Interpersonal Communications .....	3
 <i>The Reading Intensive requirement may be met by ARTT 131 or LITR 220..</i>	
<i>The Writing Intensive requirement may be met by ARTT 131 or LITR 220 or SPCH 148.</i>	
<i>The Speaking Intensive requirement may be met by ARTT 203 or ARTT 220 or LITR 220.</i>	
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>	
 <b>Liberal Education Core</b>	<b>18-21</b>
ENGL 102 English Composition II <sup>1</sup> .....	0-3
PFWL 100 Lifetime Fitness/Wellness .....	2
Laboratory Science Elective – Common Core List .....	4
Social Science Electives – Core List .....	6

<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
ARTT 111 .....	3
ARTT 114 .....	3
ARTT 116 .....	3
ARTT 130 .....	3
ENGL 101 .....	3
Total Hours: 15	
<b>Semester II</b>	
ARTT 112 .....	3
ARTT 117 .....	3
ARTT 131(R/W) .....	3
MATH 101 .....	3
SPCH 143/148(W) .....	3
200-Lev Stu Elec.....	3
Total Hours: 18	
<b>Semester III</b>	
ARTT 140 .....	3
ARTT 211 .....	2
ARTT 220(S) .....	3
ENGL 102 .....	0-3
LITR 220(R/W/S)/ Human Elective.....	3
PFWL 100 .....	2
Soc Sci Elective .....	3
200-Lev Stu Elec.....	3
Total Hours: 19-22	

*(Continued on the following page)*

<sup>1</sup> Students not selecting the combination of LITR 220/221 to satisfy the second writing skills requirement will need to complete 3 hours in a Humanities Elective and a 3-hour elective to be selected from Humanities, Science or Mathematics courses in addition to ENGL 102. Students transferring to Indiana University should take ENGL 210 Advanced Expository Writing or the literature option of LITR 220 and 221 instead of ENGL 102.

LITR 220 Introduction to World Literature I -or- Humanities Elective – Common Core List <sup>1</sup> .....	3
LITR 221 Introduction to World Literature II -or- Humanities or Science/Mathematics Elective – Broad Core Core List <sup>1</sup> .....	3

*Computer Skills are enhanced by ARTT 140.*

*The Second Writing Skills Course requirement may be met by LITR 220/221.*

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Semester IV	
ARTT 203(S) .....	3
ARTT 212.....	1
ARTT 232/200-Lev Studio Elec .....	3
LITR 221 or Hum/ Sci/Math Elec .....	3
Lab Science Elec .....	4
Soc Sci Elective.....	3
Total Hours: 17	

<sup>1</sup> Students not selecting the combination of LITR 220/221 to satisfy the second writing skills requirement will need to complete 3 hours in a Humanities Elective and a 3-hour elective to be selected from Humanities, Science or Mathematics courses in addition to ENGL 102. Students transferring to Indiana University should take ENGL 210 Advanced Expository Writing or the literature option of LITR 220 and 221 instead of ENGL 102.

**ART – PRE-ART THERAPY 2053**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum prepares students who are interested in becoming art therapists. Art therapy combines the artists' understanding and practice of creative visual expression with the therapists' understanding of personal dynamics. Art therapy can be a diagnostic tool and/or a primary form of therapy. Art therapists are employed in psychiatric hospitals, special education programs, nursing homes, drug abuse agencies, halfway houses, employee assistance programs and in private practice. Persons wishing to enter this field may earn a bachelor's degree in Art Therapy. More frequently, a bachelor's degree in Art or Psychology is followed by a master's degree in Art Therapy. This program combines study of art, psychology and general education courses appropriate for transfer to a four-year school where a degree in art, psychology or art therapy is sought.

	Credit Hours	
<b>Major Program Requirements</b>	<b>42</b>	<p><b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>ARTT 111 .....3            ARTT 114 .....3            ARTT 116 .....3            ARTT 130 .....3            ENGL 101 .....3            PFWL 100 .....2            Total Hours: 17</p> <hr/> <p><b>Semester II</b></p> <p>ARTT 112 .....3            ARTT 117 .....3            ARTT 131(R/W) .....3            ARTT 140 .....3            MATH 101 .....3            Soc Sci Elective .....3            Total Hours: 18</p> <hr/> <p><b>Semester III</b></p> <p>ARTT 211 .....2            ARTT 218(S) .....3            ENGL 102 .....0-3            LITR 220 or Hum/              Sci/Math Elec .....3            PSYC 142 .....3            Soc Sci Elective .....3            SPCH 143/148 .....3            Total Hours: 17-20</p>
ARTT 111 Two-Dimensional Design .....	3	
ARTT 112 Color and Design .....	3	
ARTT 114 Three-Dimensional Design .....	3	
ARTT 116 Drawing I .....	3	
ARTT 117 Drawing II .....	3	
ARTT 130 Art History I – Pre-history to 1500 .....	3	
ARTT 131 Art History II – 1500 to Present .....	3	
ARTT 140 Computer Art and Design .....	3	
ARTT 211 Art Portfolio Development .....	2	
ARTT 212 Art Portfolio Assessment .....	1	
ARTT 218 Painting I .....	3	
PSYC 142 General Psychology .....	3	
PSYC 249 Abnormal Psychology .....	3	
200-Level Studio Elective, 2D Area <sup>1</sup> .....	3	
200-Level Studio Elective, 3D Area <sup>2</sup> .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I <sup>3</sup> .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading and Writing Intensive requirements may be met by ARTT 131.</i>		
<i>The Speaking Intensive requirement may be met by ARTT 213, 215 or 218.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>	<b>18-21</b>	
ENGL 102 English Composition II <sup>3</sup> .....	0-3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
Laboratory Science Elective – Common Core List .....	4	

(Continued on the following page)

<sup>1</sup> Select the following: ARTT 200 Drawing I, ARTT 208 Printmaking I, or ARTT 220 Photography I.

<sup>2</sup> Select from the following: ARTT 213 Ceramics I or ARTT 215 Sculpture I.

<sup>3</sup> Students who do not select the combination of LITR 220/221 to satisfy the second writing skills requirement will need to complete a 3-hour Humanities Elective and a 3-hour elective to be selected from Humanities, Science or Mathematics courses in addition to ENGL 102. Students transferring to Indiana University should take ENGL 210 Advanced Expository Writing or the literature option of LITR 220 and 221 instead of ENGL 102.

LITR 220 Introduction to World Literature I -or- Humanities Elective – Common Core List <sup>1</sup> .....	3
LITR 221 Introduction to World Literature II -or- Humanities or Science/Mathematics Elective – Broad Core List <sup>1</sup> .....	3
Social Science Electives – Core List .....	6

*Computer Skills are enhanced by ARTT 140.*

*The Second Writing Skills Course requirement may be met by LITR 220/221.*

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Semester IV	
PSYC 249 .....	3
ARTT 212.....	1
LITR 221/Human Elective .....	3
Lab Science Elec ....	4
200-Level 2D Studio Elective .....	3
200-Level 3D Studio Elec(S).....	3
Total Hours: 17	

<sup>1</sup> Students who do not select the combination of LITR 220/221 to satisfy the second writing skills requirement will need to complete a 3-hour Humanities Elective and a 3-hour elective to be selected from Humanities, Science or Mathematics courses in addition to ENGL 102. Students transferring to Indiana University should take ENGL 210 Advanced Expository Writing or the literature option of LITR 220 and 221 instead of ENGL 102.

**ART - STUDIO CONCENTRATION 2050**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This curriculum provides the first two years of foundation studies in visual art which are intended to transfer as the first two years at other institutions that offer degrees in various specialized studio majors, such as painting, ceramics, printmaking, sculpture, photography. This program may lead to additional, related fields, such as animation, film making, computer graphics, art therapy, art history, arts administration, museum work, teaching, model making, prototype building, display design, and other art-related careers. Vincennes University is accredited with the National Association of Schools of Art and Design.

<b>Major Program Requirements</b>	<b>Credit Hours - A.S.</b>	<b>A.A.</b>	<b>Recommended Sequence of Courses for A.S.</b>	<b>Recommended Sequence of Courses for A.A.</b>	
ARTT 111 Two-Dimensional Design I .....	3	3	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  ARTT 111 .....3 ARTT 114 .....3 ARTT 116 .....3 ARTT 130 .....3 ENGL 101 .....3 PFWL 100 .....2 Total Hours: 17  <b>Semester II</b>  ARTT 112 .....3 ARTT 117 .....3 ARTT 131(R/W) .....3 ARTT 140 .....3 MATH 101 .....3 SPCH 143/148 .....3 Total Hours: 18  <b>Semester III</b>  ARTT 211 .....2 ARTT 213(S) .....3 ARTT 218(S) .....3 ARTT 220(S) .....3 ENGL 102 .....0-3 LITR 220 or Hum/Sci/Math Elec .....3 Soc Sci Elective .....3 Total Hours: 17-20	<b>42 36</b>	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  ARTT 111 .....3 ARTT 116 .....3 ARTT 130 .....3 ENGL 101 .....3 MATH 101 .....3 PFWL 100 .....2 Total Hours: 17  <b>Semester II</b>  ARTT 112 .....3 ARTT 114 .....3 ARTT 117 .....3 ARTT 131(R/W) .....3 SPCH 143/148 .....3 200-Lev Stu Elec .....3 Total Hours: 18  <b>Semester III</b>  ARTT 211 .....2 ENGL 102 .....0-3 LITR 220/Humanities Elective .....3 Foreign Lang .....4 Soc Sci Elective .....3 200-Level Studio Electives(S) .....6 Total Hours: 18-21
ARTT 112 Color and Design .....	3	3			
ARTT 114 Three-Dimensional Design .....	3	3			
ARTT 116 Drawing I .....	3	3			
ARTT 117 Drawing II .....	3	3			
ARTT 130 Art History I – Pre-history to 1500 .....	3	3			
ARTT 131 Art History II – 1500 to Present .....	3	3			
ARTT 140 Computer Art and Design .....	3	-			
ARTT 208 Printmaking I .....	3	-			
ARTT 211 Art Portfolio Development .....	2	2			
ARTT 212 Art Portfolio Assessment .....	1	1			
ARTT 213 Ceramics I .....	3	-			
ARTT 215 Sculpture I .....	3	-			
ARTT 218 Painting I .....	3	-			
ARTT 220 Photography I .....	3	-			
200-Level Studio Electives .....	-	12			
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>					
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>			
ENGL 101 English Composition I .....	3	3			
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	3			
SPCH 143 Speech -or-					
SPCH 148 Interpersonal Communications .....	3	3			
<i>The Reading and Writing Intensive requirements may be met by ARTT 131.</i>					
<i>The Speaking Intensive requirement may be met by ARTT 202, 208, 213, 215, 218 or 220.</i>					
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>					
<b>Liberal Education Core</b>	<b>18-21</b>	<b>26-29</b>			
ENGL 102 English Composition II <sup>1</sup> .....	0-3	0-3			
PFWL 100 Lifetime Fitness/Wellness .....	2	2			

(Continued on the following page)

<sup>1</sup> A.A. degree students who do not select the combination of LITR 220/221 to satisfy the second writing skills requirement will need to complete 6 hours of Humanities Electives in addition to ENGL 102. A.S. degree students who do not select the combination of LITR 220/221 to satisfy the second writing skills requirement will need to complete a 3-hour Humanities Elective and a 3-hour elective to be selected from Humanities, Science or Mathematics courses in addition to ENGL 102. Students transferring to Indiana University should take ENGL 210 Advanced Expository Writing or the literature option of LITR 220 and 221 instead of ENGL 102.

Laboratory Science Elective – Common Core List .....	4	4
Social Science Electives – Core List .....	6	6
LITR 220 Introduction to World Literature I -or- Humanities Elective – Common Core List <sup>1</sup> .....	3	3
LITR 221 Introduction to World Literature II -or- Humanities or Science/Mathematics Elective – Broad Core List <sup>1</sup> .....	3	3
Foreign Language Electives .....	-	8

*The A.A. Computer Skills requirement is met by Computers Across the Curriculum; For the A.S., Computer Skills are enhanced by ARTT 140.  
The Second Writing Skills Course requirement may be met by LITR 220/221.*

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Semester IV	Semester IV
ARTT 208(S) .....3	ARTT 212 ..... 1
ARTT 212 .....1	LITR 221/Human Elective ..... 3
ARTT 215(S) .....3	Foreign Lang ..... 4
LITR 221/Hum Elective .....3	Lab Science Elec ..... 4
Lab Science Elec ..... 4	Soc Sci Elective..... 3
Soc Sci Elective..... 3	200-Level Studio Elective(S) ..... 3
Total Hours: 17	Total Hours: 18

<sup>1</sup> A.A. degree students who do not select the combination of LITR 220/221 to satisfy the second writing skills requirement will need to complete 6 hours of Humanities Electives in addition to ENGL 102. A.S. degree students who do not select the combination of LITR 220/221 to satisfy the second writing skills requirement will need to complete a 3-hour Humanities Elective and a 3-hour elective to be selected from Humanities, Science or Mathematics courses in addition to ENGL 102. Students transferring to Indiana University should take ENGL 210 Advanced Expository Writing or the literature option of LITR 220 and 221 instead of ENGL 102.

**ASSISTIVE TECHNOLOGY 1030**  
**A Two-Year Program Leading to the A.A.S. Degree**

Assistive Technology Specialists, Practitioners, and Suppliers play a vital role as members of the total transdisciplinary team providing services to individuals with disabilities. This program will prepare students with the knowledge and skills to provide a practical approach to assistive technology applications in educational, rehabilitation, health care, business and a variety of related settings. Students will study multiple applications of new technologies and old technologies from computer access to augmentative communication, home, work, school, and recreation modifications, and environmental control systems. Upon completion of the academic requirements (with combined experience), students will be prepared for careers in assistive technology and eligible to take the RESNA credentialing exam for Assistive Technology Practitioners and Suppliers.

	<b>Credit Hours</b>		
<b>Major Program Requirements</b>	<b>40-41</b>		
EDUC 200 Computer Technology for Teachers -or- Elective.....	3	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>ENGL 101 .....3  HIMT 110 .....3  PFWL 100 .....2  PSYC 251 .....3  PSYC 291 .....3  SOCL 151 .....3  Total Hours: 17</p> <hr/> <p><b>Semester II</b></p> <p>EDUC 200 .....3  PSYC 142 .....3  SPCH 140/143/148 2-3  Math Elective .....3  Elective.....4  Total Hours: 15-16</p> <hr/> <p><b>Semester III</b></p> <p>ENGL 102 .....3  PSYC 201 .....3  PSYC 261(W) .....3  Lab Sci Elec .....3  Humanities Elec .....3  Total Hours: 15</p> <hr/> <p><b>Semester IV</b></p> <p>PSYC 271 .....3  PSYC 275(R/S) .....3  PSYC 279 .....0-1  Electives .....9  Total Hours: 15-16</p>	
HIMT 110 Medical Terminology for Allied Health.....	3		
PSYC 142 General Psychology .....	3		
PSYC 201 Developmental Psychology .....	3		
PSYC 251 Fundamentals of Assistive Technology .....	3		
PSYC 261 Assessment, Selection, and Evaluation of Assistive Technology ..	3		
PSYC 271 Applications in Assistive Technology .....	3		
PSYC 275 Internship/Special Project in Assistive Technology .....	3		
PSYC 279 Review Course for Assistive Technology Credentialing .....	0-1		
PSYC 291 Introduction to Exceptionalities .....	3		
Electives <sup>1</sup> .....	13		
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b>	<b>8-9</b>		
ENGL 101 English Composition I .....	3		
100-level or Higher Mathematics Course .....	3		
SPCH 140 Introduction to Speech -or-			
SPCH 143 Speech -or-			
SPCH 148 Interpersonal Communication.....	2-3		
<p><i>The Reading and Speaking Intensive requirements may be met by PSYC 275.</i></p> <p><i>The Writing Intensive requirement may be met by PSYC 261.</i></p> <p><i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i></p>			
<b>Liberal Education Core</b>	<b>14</b>		
ENGL 102 English Composition II .....	3		
PFWL 100 Lifetime Fitness/Wellness .....	2		
SOCL 151 Principles of Sociology .....	3		
Laboratory Science Elective – Common Core List .....	3		
Humanities Elective – Broad Core List .....	3		
<p><i>Computer Skills are enhanced by EDUC 200.</i></p>			
	<b>62-64</b>		

<sup>1</sup> Recommended electives: PSYC 130 Introduction to Human Services, PSYC 180 Ethics in the Helping Professions, courses required for related disciplines.



**ASSISTIVE TECHNOLOGY 1031**  
**A Certificate of Program Completion**

Assistive Technology Specialists, Practitioners, and Suppliers play a vital role as members of the total transdisciplinary team providing services to individuals with disabilities. This program will prepare students with the knowledge and skills to provide a practical approach to assistive technology applications in educational, rehabilitation, health care, business and a variety of related settings. Students will study multiple applications of new technologies and old technologies from computer access to augmentative communication, home, work, school, and recreation modifications, and environmental control systems. The certificate is designed to serve as professional development for individuals with experience in assistive technology or those who have degrees in related fields. Upon completion of the academic requirements (with combined experience), students will be prepared for careers in assistive technology and eligible to take the RESNA credentialing exam for Assistive Technology Practitioners and Suppliers.

	<b>Credit Hours</b>
EDUC 200 Computer Technology for Teachers -or- Elective.....	3
ENGL 101 English Composition I .....	3
PSYC 141 Applied Psychology -or-	
PSYC 142 General Psychology .....	3
PSYC 251 Fundamentals of Assistive Technology .....	3
PSYC 261 Assessment, Selection, and Evaluation of Assistive Technology ..	3
PSYC 271 Applications in Assistive Technology .....	3
PSYC 275 Internship/Special Project in Assistive Technology .....	3
PSYC 279 Review Course for Assistive Technology Credentialing .....	0-1
PSYC 291 Introduction to Exceptionalities -or-	
EDUC 291 Introduction to Exceptionalities .....	3

<i><b>Recommended Sequence of Courses</b></i>
(This sequence assumes any necessary developmental requirements have been met.)
<b>Semester I</b>
EDUC 200/Elective ... 3 ENGL 101 .....3 PSYC 141/142..... 3 PSYC 251 ..... 3 Total Hours: 12
<b>Semester II</b>
EDUC/PSYC 291..... 3 PSYC 271 .....3 PSYC 275 .....3 PSYC 261(W) .....3 PSYC 279..... 0-1 Total Hours: 12-13

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**NOTE:** All students must satisfy the University's minimal requirements either through placement tests or enrollment in MATH 011, MATT 103, 105 or 109.

**AUTOMOTIVE TECHNOLOGY 8030**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

Graduates are prepared for entry into the automotive service industry and/or transfer to a Baccalaureate Degree Program. A tool set and uniform must be purchased/obtained by students before or during enrollment. Details, requirements and pricing may be obtained through the department.

<b>Major Program Requirements</b>	<b>Credit Hours – A.A.S.</b>	<b>A.S.</b>	<b>Recommended Sequence of Courses for A.A.S.</b>	<b>Recommended Sequence of Courses for A.S.</b>
AUTO 105 Transportation Fundamentals.....	2	2	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  AUTO 105 .....2 AUTO 110 .....3 AUTO 110L .....1 AUTO 120 .....5 AUTO 120L .....3 ENGL 101 .....3 Total Hours: 17  <b>Semester II</b>  AUTO 130 .....4 AUTO 130L .....3 AUTO 160 .....3 AUTO 160L .....1 DRAF 120 .....2 SPCH 143 .....3 Math Elective .....3 Total Hours: 19  <b>Semester III</b>  AUTO 215 .....5 AUTO 215L .....3 AUTO 230 .....3 AUTO 230L .....1 Science Elec .....3 Hum/Math/Soc Sci/Writing Elec ..3 Total Hours: 18  <b>Semester IV</b>  AUTO 210 (R/W/S) 4 AUTO 210L .....3 AUTO 280 .....3 PFWL 100 or PFWL 115/ HLTH 211 .....2-3 Directed Elec .....2-3 Hum/Math/Sci/ Writing Elec .....3 Social Sci Elec.....3 Total Hours: 20-22	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  AUTO 105 .....2 AUTO 110 .....3 AUTO 110L .....1 AUTO 120 .....5 AUTO 120L .....3 ENGL 101 .....3 Total Hours: 17  <b>Semester II</b>  AUTO 130 .....4 AUTO 130L .....3 AUTO 160 .....3 AUTO 160L .....1 MATH 101 .....3 SPCH 143 .....3 Writing Elective ....3 Total Hours: 20  <b>Semester III</b>  AUTO 230 .....3 AUTO 230L .....1 AUTO 215 .....5 AUTO 215L .....3 Lab Science Elec.....3 PFWL 100 or PFWL 115/ HLTH 211 .....2-3 Hum/Math/Sci/ Elective.....3 Total Hours: 20-21  <b>Semester IV</b>  AUTO 210 (R/W/S) 4 AUTO 210L .....3 AUTO 280 .....3 Directed Elec .....2-3 Humanities Elec .....3 Soc Sci Elec.....6 Total Hours: 21-22
AUTO 110 Transportation Electrical .....	3	3		
AUTO 110L Transportation Electrical Laboratory .....	1	1		
AUTO 120 Automotive Chassis Systems .....	5	5		
AUTO 120L Automotive Chassis Systems Laboratory .....	3	3		
AUTO 130 Automotive Engine Systems .....	4	4		
AUTO 130L Automotive Engine Systems Laboratory .....	3	3		
AUTO 160 Automotive Electronics .....	3	3		
AUTO 160L Automotive Electronics Laboratory.....	1	1		
AUTO 210 Automotive Engine Performance.....	4	4		
AUTO 210L Automotive Engine Performance Laboratory .....	3	3		
AUTO 215 Automotive Drive Trains .....	5	5		
AUTO 215L Automotive Drive Trains Laboratory .....	3	3		
AUTO 230 Transportation HVAC.....	3	3		
AUTO 230L Transportation HVAC Laboratory .....	1	1		
AUTO 280 Automotive Service Capstone.....	3	3		
DRAF 120 Computers for Technology .....	2	-		
Directed Elective <sup>1</sup> .....	2-3	2-3		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>			<b>9</b>	<b>9</b>
ENGL 101 English Composition I .....	3	3		
MATH 101 Intermediate Algebra (or higher mathematics) .....	-	3		
100-level or Higher Mathematics Course .....	3	-		
SPCH 143 Speech .....	3	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by AUTO 210.</i>				
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a Mathematics assessment examination.</i>				
<b>Liberal Education Core</b>			<b>14-15</b>	<b>20-21</b>
Writing Skills Course (ENGL 102, 107, 108, 109, 112, 205, or 210).....	-	3		
PFWL 100 Lifetime Fitness/Wellness -or-				
PFWL 115 Concepts in Wellness -and-				
HLTH 211 First Aid.....	2-3	2-3		
Lab Science Elective .....	3	3		
Science Elective .....	3	-		
Humanities Elective – Common Core List .....	-	3		
Social Science Elective – Core List .....	3	6		
Humanities or Science or Mathematics Elective – Broad Core List .....	-	3		

<sup>1</sup> Students should select one of the following:

DRAF 101 Introduction to Drafting	MTTD 205 Welding and Fabrication
DRAF 140 Introduction to CAD	WELD 160 General Welding
MTTD 105 Metallurgy and Industrial Blueprint Reading	WELD 165 Advanced General Welding

One course from two of the following areas:

Humanities, Mathematics or Science – Broad Core

List -or-

Social Science or Writing – Core List ..... 6 -

*The A.S. Computer Skills requirement is met by Computers Across the Curriculum. For the A.A.S., Computer Skills are enhanced by DRAF 120.*

74-76 78-80

**AVIATION FLIGHT TECHNOLOGY, GENERAL 8090**  
**A Two-Year Program Leading to the A.A.S. Degree**

This program offers the ground school and flight instruction for the Federal Aviation Administration's Commercial Pilot flight test with Instrument rating. Students may elect to obtain the Flight Instructor certificate. All applicants should have a FAA Class II medical prior to starting classes. Vincennes University training aircraft, as do all aircraft, have weight and balance limitations. Some individuals may be denied entry into the program because of their size and/or weight.

	<b>Credit Hours</b>
<b>Major Program Requirements</b>	<b>45</b>
AFLT 100 Primary Ground School .....	5
AFLT 105 Primary Flight .....	3
AFLT 110 Ground Instruction on Primary Flight Maneuvers .....	2
AFLT 160 Powerplant Lecture .....	2
AFLT 176 Instrument Flight.....	3
AFLT 181 Commercial Ground School.....	3
AFLT 186 Commercial Flight I .....	3
AFLT 210 Instruments, Radios and Systems.....	2
AFLT 216 Commercial Flight II .....	4
AFLT 221 Instrument Ground School .....	5
AFLT 261 Aviation Instructor Fundamentals.....	3
AFLT 263 Flight Training Techniques .....	3
DRAF 120 Computers for Technology .....	2
Flight Elective .....	2
Elective .....	3

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition I .....	3
MATH 102 College Algebra .....	3
SPCH 143 Speech .....	3

*The Reading and Writing Intensive requirements may be met by AFLT 263.*

*The Speaking Intensive requirement may be met by AFLT 261.*

*The Mathematics Intensive requirement may be met by MATH 102 or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>	<b>14</b>
ENGL 108 Technical Writing .....	3
MATH 104 Trigonometry .....	3
PFWL 100 Lifetime Fitness Wellness .....	2
PSYC 142 General Psychology .....	3
Science Elective – Common Core List.....	3

*Computer Skills are enhanced by DRAF 120.*

<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
<b>Semester I</b>
AFLT 100 .....5
AFLT 105 .....3
AFLT 110 .....2
DRAF 120 .....2
ENGL 101 .....3
MATH 102(M)..... 3
Total Hours: 18
<b>Semester II</b>
AFLT 160 .....2
AFLT 176 .....3
AFLT 186 .....3
AFLT 221 .....5
ENGL 108 .....3
MATH 104 ..... 3
Total Hours: 19
<b>Semester III</b>
AFLT 181 .....3
AFLT 210 .....2
AFLT 216 .....4
PFWL 100 .....2
SPCH 143 .....3
Science Elective ..... 3
Total Hours: 17
<b>Semester IV</b>
AFLT 261(S) .....3
AFLT 263(R/W) .....3
PSYC 142 .....3
Flight Elective ..... 2
Elective..... 3
Total Hours: 14

**68**

Elective courses within the Flight Department:

- AFLT 101 Experience in Aviation, 2 credit hours
- AFLT 201 Instrument Flight Instructor Theory, 2 credit hours
- AFLT 270 High Performance Aircraft, 2 credit hours
- AFLT 280 Instrument Flight Instructor – Airplane Rating, 2 credit hours
- AFLT 292 Precision Flight Maneuvers, 2 credit hours
- AFLT 295 Flight Instructor – Airplane Rating, 2 credit hours
- AFLT 296 Advanced Flight, 2 credit hours

**AVIATION FLIGHT TECHNOLOGY – AIRWAY SCIENCE CONCENTRATION 8091**  
**A Two-Year Program Leading to the A.S. Degree**

This program is for those students who are academically well prepared. All applicants should have a FAA Class II medical prior to starting classes. Vincennes University training aircraft, as do all aircraft, have weight and balance limitations. Some individuals may be denied entry into the program because of their size and/or weight.

	<b>Credit Hours</b>
<b>Major Program Requirements</b>	<b>42</b>
AFLT 100 Primary Ground School .....	5
AFLT 105 Primary Flight .....	3
AFLT 110 Ground Instruction on Primary Flight Maneuvers .....	2
AFLT 160 Powerplant Lecture .....	2
AFLT 176 Instrument Flight.....	3
AFLT 181 Commercial Ground School.....	3
AFLT 186 Commercial Flight I .....	3
AFLT 210 Instruments, Radios and Systems.....	2
AFLT 216 Commercial Flight II .....	4
AFLT 221 Instrument Ground School .....	5
AFLT 261 Aviation Instructor Fundamentals.....	3
AFLT 263 Flight Training Techniques .....	3
AFLT 295 Flight Instructor--Airplane Rating -and/or-	
AFLT 296 Advanced Flight .....	2
DRAF 120 Computers for Technology .....	2

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition I .....	3
MATH 102 College Algebra .....	3
SPCH 143 Speech .....	3

*The Reading and Writing Intensive requirements may be met by AFLT 263.  
 The Speaking Intensive requirement may be met by AFLT 261.  
 The Mathematics Intensive requirement may be met by MATH 102.*

<b>Liberal Education Core</b>	<b>22</b>
ENGL 102 English Composition II .....	3
MATH 104 Trigonometry .....	3
PFWL 100 Lifetime Fitness/Wellness .....	2
PHYS 105 General Physics I .....	4
PHYS 105L General Physics Laboratory I.....	1
PSYC 142 General Psychology .....	3
Humanities Elective – Common Core List .....	3
Social Science Elective – Core List .....	3

*Computer Skills are enhanced by DRAF 120.*

<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
<b>Semester I</b>
AFLT 100 .....5
AFLT 105 .....3
AFLT 110 .....2
DRAF 120 .....2
ENGL 101 .....3
MATH 102(M).....3
Total Hours: 18
<b>Semester II</b>
AFLT 160 .....2
AFLT 176 .....3
AFLT 186 .....3
AFLT 221 .....5
ENGL 102 .....3
MATH 104..... 3
Total Hours: 19
<b>Semester III</b>
AFLT 181 .....3
AFLT 210 .....2
AFLT 216 .....4
PFWL 100 .....2
PHYS 105 .....4
PHYS 105L..... 1
SPCH 143..... 3
Total Hours: 19
<b>Semester IV</b>
AFLT 261(S) .....3
AFLT 263(W/R) .....3
AFLT 295/296..... 2
PSYC 142 .....3
Humanities Elec. .... 3
Social Science Elec. . 3
Total Hours: 17

**73**

**Elective courses within the Flight Department:**

- AFLT 101 Experience in Aviation, 2 credit hours
- AFLT 201 Instrument Flight Instructor Theory, 2 credit hours
- AFLT 270 High Performance Aircraft, 2 credit hours
- AFLT 280 Instrument Flight Instructor – Airplane Rating, 2 credit hours
- AFLT 292 Precision Flight Maneuvers, 2 credit hours
- AFLT 295 Flight Instructor – Airplane Rating, 2 credit hours
- AFLT 296 Advanced Flight, 2 credit hours

**AVIATION FLIGHT TECHNOLOGY 8092**  
**A One-Year Certificate of Program Completion**

This certificate program offers the ground and flight training leading to the Federal Aviation Administration Private Pilot Certificate. Additionally, the required supporting general academic courses are designed to better prepare the student should they decide to continue their education.

	<b>Credit Hours</b>	
AFLT 100 Primary Ground School .....	5	<p style="text-align: center;"><i><b>Recommended Sequence of Courses</b></i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p style="text-align: center;"><b>Semester I</b></p> <p>AFLT 100 .....5  AFLT 102 .....1  AFLT 103 .....2  AFLT 110 .....2  ENGL 101 .....3  SPCH 140 .....2  Total Hours: 15</p> <hr/> <p style="text-align: center;"><b>Semester II</b></p> <p>AFLT 104 .....1  AFLT 160 .....2  COMP 101/Equiv....0-1  ENGL 102 .....3  MATH 102 .....3  Soc Sci Elective .. 3  Total Hours: 12-13</p>
AFLT 102 Solo Preparation .....	1	
AFLT 103 Basic Flying Techniques and Navigation.....	2	
AFLT 104 Cross Country Flight and Private Pilot Preparation .....	1	
AFLT 110 Ground Instruction on Primary Flight Maneuvers .....	2	
AFLT 160 Powerplant Lecture .....	2	
COMP 101 Using the Windows Environment -or- Equivalent .....	0-1	
ENGL 101 English Composition I .....	3	
ENGL 102 English Composition II .....	3	
MATH 102 College Algebra .....	3	
SPCH 140 Introduction to Speech .....	2	
Social Science Elective .....	3	
<hr style="width: 100px; margin-left: auto; margin-right: 0;"/>		
<b>27-28</b>		

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011.

**AVIATION MAINTENANCE TECHNOLOGY 8120**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum prepares students for a career as an Aviation Maintenance Technician. Successful completion of the program and the required FAA exams leads the student to an Airframe and Powerplant Technician rating (A&P).

<b>Major Program Requirements</b>	<b>Credit Hours - A.A.S.</b>	<b>A.S.</b>	<b>Recommended Sequence of Courses for A.A.S.</b>	<b>Recommended Sequence of Courses for A.S.</b>
AMNT 102 General Aviation Maintenance .....	4	4	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  AMNT 102 .....4 AMNT 104 .....4 AMNT 106 .....4 AMNT 107 .....4 DRAF 120 or COMP 101 .....1-2 ENGL 101 .....3 MATH 101 .....3 Total Hours: 23-24  <b>Semester II</b>  AMNT 162 .....4 AMNT 164 .....4 AMNT 166 .....4 AMNT 167 .....4 HIST 125 .....3 PFWL 100 or PFWL 115/ HLTH 211 .....2-3 SPCH 143 .....3 Total Hours: 24-25  <b>Semester III</b>  AMNT 202 .....4 AMNT 204 .....4 AMNT 206 .....4 AMNT 207 .....4 ENGL 102 .....3 PHYT 101 .....4 Total Hours: 23  <b>Semester IV</b>  AMNT 262(R/W).....4 AMNT 264(S) .....4 AMNT 266 .....4 AMNT 287 .....4 Hum/Math/Soc Sci/Sci Elec .....3 Total Hours: 19	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  AMNT 102.....4 AMNT 104.....4 AMNT 106.....4 AMNT 107.....4 DRAF 120 or COMP 101 .....1-2 ENGL 101 .....3 MATH 101.....3 Total Hours: 23-24  <b>Semester II</b>  AMNT 162.....4 AMNT 164.....4 AMNT 166.....4 AMNT 167.....4 PFWL 100 or PFWL 115/ HLTH 211.....2-3 MATH 102.....3 SPCH 143 .....3 Total Hours: 24-25  <b>Semester III</b>  AMNT 202.....4 AMNT 204.....4 AMNT 206.....4 AMNT 207.....4 ENGL 102 .....3 HIST 125.....3 PHYT 101 .....4 Total Hours: 26  <b>Semester IV</b>  AMNT 262(R/W) .....4 AMNT 264(S) .....4 AMNT 266.....4 AMNT 287.....4 Humanities Elec.....3 Soc Sci Elective .....3 Total Hours: 22
AMNT 104 Introduction to Electricity .....	4	4		
AMNT 106 Materials, Processes and Welding .....	4	4		
AMNT 107 Hydraulics and Pneumatics .....	4	4		
AMNT 162 Aircraft Sheetmetal .....	4	4		
AMNT 164 Aircraft Systems.....	4	4		
AMNT 166 Composite and Nonmetallic Structures....	4	4		
AMNT 167 Aircraft Electrical .....	4	4		
AMNT 202 Powerplant Fuel and Induction Systems ...	4	4		
AMNT 204 Reciprocating Engine Overhaul .....	4	4		
AMNT 206 Powerplant Systems and Propellers .....	4	4		
AMNT 207 Powerplant Electrical .....	4	4		
AMNT 262 Turbine Engines .....	4	4		
AMNT 264 Engine Installation and Troubleshooting ..	4	4		
AMNT 266 Aircraft Inspection .....	4	4		
AMNT 287 FAA Certification .....	4	4		
DRAF 120 Computers for Technology -or-				
COMP 101 Using the Windows Environment .....	1-2	1-2		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>				
ENGL 101 English Composition I .....	3	3		
MATH 101 Intermediate Algebra (or higher mathematics).....	3	3		
SPCH 143 Speech .....	3	3		
<i>The Reading and Writing Intensive requirements may be met by AMNT 262.</i>				
<i>The Speaking Intensive requirement may be met by AMNT 264.</i>				
<i>The Mathematics Intensive requirement may be met by MATH 102 for A.S. or by a subsequent mathematics course or by passing a mathematics assessment examination.</i>				
<b>Liberal Education Core</b>				
ENGL 102 English Composition II .....	3	3		
HIST 125 History of American Technology.....	3	3		
MATH 102 College Algebra .....	-	3		
PFWL 100 Lifetime Fitness/Wellness -or-				
PFWL 115 Concepts in Wellness -and-				
HLTH 211 First Aid .....	2-3	2-3		
PHYT 101 Technical Physics.....	4	4		
Humanities Elective – Common Core List .....	-	3		
Social Science Elective – Core List .....	-	3		
One course from one of the following areas:				
Humanities, Mathematics or Science – Broad Core List -or-				
Social Science – Core List .....				
	3	-		
<i>Computer Skills are enhanced by DRAF 120 or COMP 101.</i>				
	<b>89</b>	<b>95-97</b>		

**AVIATION MAINTENANCE TECHNOLOGY  
 AVIONICS AND FCC GENERAL RADIOTELEPHONE CERTIFICATE 8126  
 A Certificate of Program Completion  
 (Available at Indianapolis Aviation Technology Center)**

This certificate is designed to introduce the student to the required knowledge of basic electronics and rules necessary in preparation for the FCC General Radiotelephone License and to provide general Avionic knowledge. There will be a focus on Elements I & III, plus Element VIII (for radar endorsement). This will include, but not be limited to: Antennas, Amplifiers, Audio Transmitters and Receivers, Digital applications, Aviation Navigation and Communication Systems, Multivibrators, Oscillators, Pulse Equipment, Radar, Transmission Lines and Wavelength identifications and applications.

	<b>Credit Hours</b>	
AMNT 295 Aviation Maintenance Avionics I .....	4	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>AMNT 295 ..... 4 Total Hours: 4</p> <hr/> <p><b>Semester II</b></p> <p>AMNT 296 ..... 4 ENGL 101 ..... 3 Total Hours: 7</p> <hr/> <p><b>Summer I</b></p> <p>AMNT 297 ..... 2 Total Hours: 2</p> <hr/> <p><b>Summer II</b></p> <p>FCC-Testing ..... 0 Total Hours: 0</p>
AMNT 296 Aviation Maintenance Avionics II .....	4	
AMNT 297 FCC GROL Pre-testing .....	2	
ENGL 101 English Composition I .....	3	
FCC Testing (optional) .....	0	
	<b>13</b>	

**NOTE:** All students must have completed AMNT 104 & 167, (or) an A&P (or) obtained Departmental Approval.

**NOTE:** This Avionics and FCC Radiotelephone Certificate of Program Completion is designed to match the requirements for testing for the FCC General Radiotelephone First Class License with a Radar Endorsement.

**AVIATION MAINTENANCE TECHNOLOGY  
 TRANSPORT CATEGORY AIRCRAFT TECHNICIAN CERTIFICATE 8122  
 A Certificate of Program Completion  
 (Available at Indianapolis Aviation Technology Center)**

This curriculum prepares certificate mechanics for careers as Aviation Maintenance Technicians in the airline, corporate, or commuter aviation industry.

	<b>Credit Hours</b>	
AMNT 190 Boeing 737 General Familiarization .....	2	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Summer</b></p> <p>AMNT 190 ..... 2 AMNT 300 ..... 3 AMNT 305 ..... 3 Total Hours: 8</p> <hr/> <p><b>Semester II</b></p> <p>AMNT 320 ..... 6 AMNT 330 ..... 3 AMNT 340 ..... 3 Total Hours: 12</p>
AMNT 300 Boeing 737 Inspection and Servicing Procedures .....	3	
AMNT 305 Boeing 737 Line Maintenance .....	3	
AMNT 320 Advanced Aircraft Electronic Systems .....	6	
AMNT 330 Transport Category Aircraft Inspection and Repair .....	3	
AMNT 340 Air Carrier Operations .....	3	
	<b>20</b>	



**BEHAVIORAL SCIENCES 1050**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This program offers a coordinated study of psychology and sociology, two fields associated with the development of valid generalizations about human behavior. The program can provide background for government service, pre-law, teaching, or any people-related career. It permits the exploration of psychology or sociology as areas of future specialization. A concentration in either psychology or sociology can be selected.

		Credit Hours - A.S.	A.A.	<i>Recommended Sequence of Courses for A.S.</i>	<i>Recommended Sequence of Courses for A.A.</i>
<b>Major Program Requirements</b>		<b>33</b>	<b>27</b>		
ECON 201	Microeconomics -or- 200-Level Social Science Elective.....	3	3	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
ECON 202	Macroeconomics -or- 200-Level Social Science Elective.....	3	3		
PSYC 142	General Psychology .....	3	3		
PSYC 201	Developmental Psychology .....	3	3		
SOCL 151	Principles of Sociology .....	3	3		
SOCL 252	Social Problems .....	3	3		
	Directed Elective <sup>1</sup> .....	3	3		
	Social Science Electives <sup>2</sup> .....	6	6		
	Electives .....	6	-		
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>					
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>		
ENGL 101	English Composition I .....	3	3	Total Hours: 15	Total Hours: 16
MATH 101	Intermediate Algebra.....	3	3		
SPCH 143	Speech .....	3	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by POLS 211, PSYC 249 or SOCL 245.</i>					
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>					
<b>Liberal Education Core</b>		<b>20</b>	<b>28</b>		
ENGL 102	English Composition II <sup>3</sup> .....	3	3	Total Hours: 15	Total Hours: 18
HIST 139	American History I -or- HIST 235 World Civilization I .....	3	3		
HIST 140	American History II -or- HIST 236 World Civilization II.....	3	3		
PFWL 100	Lifetime Fitness/Wellness .....	2	2		
	Laboratory Science Elective – Common Core List .....	3	3		
	Humanities Elective – Common Core List .....	3	3		
	Humanities Elective – Broad Core List .....	-	3		
	Humanities or Science/Mathematics Elective – Broad Core List .....	3	-		
	Foreign Language Electives .....	-	8		
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>					
		<b>62</b>	<b>64</b>		
				<b>Semester I</b>	<b>Semester I</b>
				ENGL 101 .....3	ENGL 101 .....3
				PFWL 100 .....2	PFWL 100 .....2
				PSYC 142 .....3	SOCL 151 .....3
				SOCL 151 .....3	SPCH 143 .....3
				SPCH 143 .....3	Foreign Lang .....4
				Total Hours: 14	Total Hours: 15
				<b>Semester II</b>	<b>Semester II</b>
				ENGL 102 .....3	ENGL 102 .....3
				MATH 101 .....3	MATH 101 .....3
				PSYC 201 .....3	PSYC 142 .....3
				SOCL 252 .....3	SOCL 252 .....3
				Humanities Elec .....3	Foreign Lang .....4
				Total Hours: 15	Total Hours: 16
				<b>Semester III</b>	<b>Semester III</b>
				ECON 201/200-Level Soc Science Elec ...3	ECON 201/200-Level Soc Science Elec...3
				HIST 139/235.....3	HIST 139/235 .....3
				Lab Science Elec .....3	Humanities Elec.....3
				Soc Science Elec ...6	Lab Science Elec.....3
				Total Hours: 15	Soc Sci Electives...6
					Total Hours: 18
				<b>Semester IV</b>	<b>Semester IV</b>
				ECON 202/200-Level Soc Science Elec ...3	ECON 202/200-Level Soc Science Elec...3
				HIST 140/236.....3	HIST 140/236 .....3
				Dir Elec(R/W/S) .....3	PSYC 201 .....3
				Hum/Sci/Math Elec .3	Dir Elec(R/W/S) .....3
				Electives .....6	Humanities Elec.....3
				Total Hours: 18	Total Hours: 15

<sup>1</sup> The student must choose one of the following classes to meet intensive requirements: POLS 211 Introduction to World Politics, PSYC 249 Abnormal Psychology or SOCL 245 Cultural Diversity: Sociology.

<sup>2</sup> Recommended electives: PSYC 240 Human Sexuality, PSYC 250 Behavioral and Emotional Disorders in Childhood and Adolescence, SOCL 260 Sociological Aspects of Death, SOCL 261 Sociology of Relationships and Families, or other social science courses.

<sup>3</sup> Students transferring to Indiana University should substitute ENGL 210 Advanced Expository Writing for ENGL 102.

**BEHAVIORAL SCIENCES – COMMUNITY REHABILITATION 1056**  
**A Certificate of Program Completion**

This comprehensive one-year program is designed to prepare students to work in a variety of rehabilitation programs and human services settings. It is anticipated that the program will appeal to individuals who are seeking a career in a helping profession and/or those who would like to specialize in this area and are interested in upgrading their skills. This program will provide specific training to students. Upon completion of the certificate program, students will be able to assess the needs and then implement the necessary care and training to persons with a variety of special needs (e.g., elderly, mental illness, learning and developmental disabilities, emotional problems, terminal illness, etc.). Students will also understand the importance of professional conduct, theories of normalization applied in the least restrictive environment and consumer based philosophy.

	Credit Hours	<i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)
ECON 208 Personal Financial Management -or-		
EDUC 200 Computer Technology for Teachers -or-		
MGMT 240 Microcomputers in Business -or-		
SSKL 110 Workplace Readiness Skills .....	3	
ENGL 101 English Composition I .....	3	
HLTH 211 First Aid .....	2	
PSYC 130 Introduction to Human Services .....	3	
PSYC 160 Delivering Human Services -or-		
EDUC 202 Paraprofessionals in the School .....	3	
PSYC 291 Introduction to Exceptionalities .....	3	
SOCL 240 Social Work Practice -or-		
EDUC 290 Initial Experiences in Education .....	3	
Psychology Electives <sup>1</sup> .....	6	
Elective <sup>2</sup> .....	3	
	<b>29</b>	
		<b>Semester I</b>
		ENGL 101 .....3
		HLTH 211 .....2
		PSYC 130 .....3
		PSYC 291 .....3
		Psychology Elec.....3
		Total Hours: 14
		<b>Semester II</b>
		ECON 208/EDUC 200
		MGMT 240/
		SSKL 110 ..... 3
		PSYC 160/
		EDUC 202 ..... 3
		SOCL 240/EDUC
		290 ..... 3
		Psychology Elec ..... 3
		Elective ..... 3
		Total Hours: 15

**NOTE:** All students must satisfy the University's minimal requirements either through placement tests or enrollment in MATH 011, MATT 103, 105 or 109.

<sup>1</sup> PSYC 141 Applied Psychology, PSYC 142 General Psychology, PSYC 180 Ethics in the Helping Profession, PSYC 201 Developmental Psychology, PSYC 242 Educational Psychology, PSYC 249 Abnormal Psychology.

<sup>2</sup> Selection of elective should be in area of interest. Recommended courses:  
 EDUC 251 Fundamentals of Assistive Technology, LAWE 150 Introduction to Criminology, LAWE 250 Juvenile Delinquency, SOCL 151 Principles of Sociology, SOCL 153 Introduction to Social Work, SOCL 261 Sociology of Relationships and Families, SSKL 103 Study Skills.

**BEHAVIORAL SCIENCES – PSYCHOLOGY CONCENTRATION 1053**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This program allows students to begin a concentration in psychology that will lead eventually to a major in that field. The study of psychology prepares individuals for positions in industry, education, government, business, health care and religion.

	Credit Hours - A.S.	A.A.				
<b>Major Program Requirements</b>	<b>33</b>	<b>27</b>				
PSYC 142 General Psychology .....	3	3	<b>Recommended Sequence of Courses for A.S.</b> (This assumes any necessary developmental requirements have been met.)	<b>Recommended Sequence of Courses for A.A.</b> (This assumes any necessary developmental requirements have been met.)		
PSYC 201 Developmental Psychology .....	3	3				
PSYC 249 Abnormal Psychology .....	3	3				
SOCL 151 Principles of Sociology .....	3	3				
SOCL 252 Social Problems .....	3	3				
200-level Psychology Elective .....	3	3				
Social Science Electives <sup>1</sup> .....	9	6				
Elective .....	6	3				
<b>General Education Requirements</b>						
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>						
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>				
ENGL 101 English Composition I .....	3	3	<b>Semester I</b> ENGL 101 .....3 PSYC 142 .....3 SOCL 151 .....3 Elective .....3 Soc Sci Elec .....3 Total Hours: 15	<b>Semester I</b> ENGL 101 .....3 PFWL 100 .....2 PSYC 142 .....3 SOCL 151 .....3 Foreign Lang .....4 Total Hours: 15		
MATH 101 Intermediate Algebra -or-						
MATH 102 College Algebra <sup>2</sup> .....	3	3				
SPCH 143 Speech .....	3	3				
<i>The Reading, Writing and Speaking Intensive requirements may be met by PSYC 249.</i>						
<i>The Mathematics Intensive requirement may be met by MATH 102 or a subsequent mathematics course or by passing a mathematics assessment examination.</i>						
<b>Liberal Education Core</b>	<b>21</b>	<b>29</b>				
ENGL 102 English Composition II <sup>3</sup> .....	3	3	<b>Semester II</b> ENGL 102 .....3 HIST 139/235 .....3 PFWL 100 .....2 SOCL 252 .....3 SPCH 143 .....3 Humanities Elec .....3 Total Hours: 17	<b>Semester II</b> ENGL 102 .....3 HIST 139/235 .....3 SOCL 252 .....3 SPCH 143 .....3 Foreign Lang .....4 Total Hours: 16		
HIST 139 American History I -or-						
HIST 235 World Civilization I .....	3	3				
HIST 140 American History II -or-						
HIST 236 World Civilization II .....	3	3	<b>Semester III</b> LFSC 100 .....4 MATH 101/102 .....3 PSYC 201 .....3 Soc Sci Elec .....3 Elective .....3 Total Hours: 16	<b>Semester III</b> LFSC 100 .....4 MATH 101/102 .....3 PSYC 201 .....3 Humanities Elec .....3 Soc Sci Elec .....3 Elective .....3 Total Hours: 19		
LFSC 100 Human Biology .....	4	4				
PFWL 100 Lifetime Fitness/Wellness .....	2	2				
Humanities Elective – Common Core List .....	3	3				
Humanities Elective – Broad Core List .....	-	3	<b>Semester IV</b> HIST 140/236 .....3 PSYC 249(R/W/S) .....3 Hum/Sci/Math Elec .....3 Psychology Elec .....3 Soc Sci Elec .....3 Total Hours: 15	<b>Semester IV</b> HIST 140/236 .....3 PSYC 249(R/W/S) .....3 Psychology Elec .....3 Humanities Elec .....3 Soc Sci Elec .....3 Total Hours: 15		
Humanities or Science/Mathematics Elective – Broad Core List <sup>4</sup> .....	3	-				
Foreign Language Electives .....	-	8				
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>						

<sup>1</sup> Students should check with their advisors and jointly consider transfer institution requirements when selecting these electives.

<sup>2</sup> Students transferring to Southern Illinois University should select MATH 102.

<sup>3</sup> Students transferring to Indiana University should substitute ENGL 210 Advanced Expository Writing for ENGL 102.

<sup>4</sup> MATH 111 Finite Mathematics recommended for students transferring to Indiana University.

**BEHAVIORAL SCIENCES – SOCIOLOGY CONCENTRATION 1054**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This program allows students to begin a concentration in sociology that will lead eventually to a major in that field. The study of sociology prepares individuals for positions in industry, education, government, business, welfare, and various community agencies.

	Credit Hours - A.S.	A.A.		
<b>Major Program Requirements</b>	<b>33</b>	<b>27</b>		
ECON 201 Microeconomics -or- 200-Level Social Science Elective.....	3	3	<i>Recommended Sequence of Courses for A.S.</i> (This assumes any necessary developmental requirements have been met.)	<i>Recommended Sequence of Courses for A.A.</i> (This assumes any necessary developmental requirements have been met.)
ECON 202 Macroeconomics -or- 200-Level Social Science Elective.....	3	3		
PSYC 142 General Psychology .....	3	3		
PSYC 201 Developmental Psychology .....	3	-		
SOCL 151 Principles of Sociology .....	3	3		
SOCL 154 Cultural Anthropology <sup>1</sup> .....	3	3		
SOCL 252 Social Problems .....	3	3		
SOCL 253 Introduction to Social Psychology .....	3	3		
SOCL 254 Introduction to Archaeology <sup>1</sup> -or- 200-Level Social Science Elective.....	3	3		
Directed Elective <sup>2</sup> .....	3	3		
Elective.....	3	-		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>		
ENGL 101 English Composition I .....	3	3	<b>Semester I</b> ENGL 101 .....3 HIST 139 .....3 PSYC 142 .....3 SOCL 151 .....3 Total Hours: 12	<b>Semester I</b> ENGL 101 .....3 PFWL 100 .....2 PSYC 142 .....3 SOCL 151 .....3 Foreign Lang.....4 Total Hours: 15
MATH 101 Intermediate Algebra.....	3	3		
SPCH 143 Speech .....	3	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by POLS 211, PSYC 249 or SOCL 245.</i>				
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>				
<b>Liberal Education Core</b>	<b>20</b>	<b>28</b>		
ENGL 102 English Composition II <sup>3</sup> .....	3	3	<b>Semester II</b> ENGL 102 .....3 SOCL 252 .....3 SOCL 254/200-Level Soc Sci Elec.....3 SPCH 143 .....3 Hum/Sci/Math Elec.3 Lab Science Elec...3 Total Hours: 18	<b>Semester II</b> ENGL 102 .....3 SOCL 254/200-Level Soc Sci Elec .....3 SPCH 143 .....3 Foreign Lang .....4 Lab Science Elec...3 Total Hours: 16
HIST 139 American History I.....	3	3		
HIST 140 American History II .....	3	3		
PFWL 100 Lifetime Fitness/Wellness .....	2	2		
Laboratory Science Elective – Common Core List .....	3	3	<b>Semester III</b> ECON 201/200-Level Soc Sci Elec.....3 HIST 140 .....3 MATH 101 .....3 PFWL 100 .....2 PSYC 201 .....3 Humanities Elec ....3 Total Hours: 17	<b>Semester III</b> ECON 201/200-Level Soc Sci Elec .....3 HIST 139.....3 MATH 101 .....3 SOCL 252 .....3 Dir Elec(R/W/S) ....3 Total Hours: 15
Humanities Elective – Common Core List .....	3	3		
Humanities Elective – Broad Core List .....	-	3		
Humanities or Science/Mathematics Elective – Broad Core List .....	3	-		
Foreign Language Electives .....	-	8		
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>				
			<b>Semester IV</b> ECON 202/200-Level Soc Sci Elec.....3 SOCL 154 .....3 SOCL 253 .....3 Elective.....3 Dir Elec(R/W/S)....3 Total Hours: 15	<b>Semester IV</b> ECON 202/200-Level Soc Sci Elec .....3 HIST 140.....3 SOCL 154 .....3 SOCL 253 .....3 Humanities Elec ....6 Total Hours: 18

<sup>1</sup> SOCL 154 and 254 are offered in alternate years, spring semester only.

<sup>2</sup> The student must choose one of the following classes to meet intensive requirements: POLS 211 Introduction to World Politics, PSYC 249 Abnormal Psychology or SOCL 245 Cultural Diversity: Sociology.

<sup>3</sup> Students transferring to Indiana University should substitute ENGL 210 Advanced Expository Writing for ENGL 102.

**BEHAVIORAL SCIENCES – SUBSTANCE ABUSE CERTIFICATE 1055**  
**A Certificate of Program Completion**

This certificate program is designed primarily for professionals and paraprofessionals who are interested in becoming specialists in the area of substance abuse counseling. The courses could, however, benefit a wide variety of persons, including teachers, school counselors and administrators, personnel counselors, nurses, and ministers. This program will train students to recognize and treat substance abusers as well as to develop prevention and treatment programs. Field work will be required with some of the courses. A certificate program provides students with a Certificate of Completion, *not* an associate degree and not a credential to be a fully certified counselor. Students wishing to receive a degree should major in social work or another behavioral science program and then specialize in the Substance Abuse Program.

	<b>Credit Hours</b>
ENGL 101 English Composition I .....	3
SOCL 180 Clinical Aspects of Substance Abuse <sup>1</sup> .....	3
SOCL 181 Therapeutic Interventions with Substance Abusers I <sup>1</sup> .....	3
SOCL 280 Therapeutic Interventions with Substance Abusers II <sup>1</sup> .....	3
SOCL 281 Substance Abuse Treatment Programs <sup>1</sup> .....	3
SOCL 282 Practicum in Substance Abuse Counseling <sup>1</sup> .....	0-3

**15-18**

<b>Recommended Sequence of Courses</b>	
(This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
SOCL 180 .....	3
SOCL 181 .....	3
ENGL 101 .....	3
Total Hours: 9	
<b>Semester II</b>	
SOCL 280 .....	3
SOCL 281 .....	3
SOCL 282 .....	0-3
Total Hours: 6-9	

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011 and MATH 011, MATH 103, 105 or 109.

<sup>1</sup> This optional practicum will be offered on an arranged basis for those students who desire this practical experience. See course description for details.

**BIOLOGICAL AND PHYSICAL SCIENCES –BIOCHEMISTRY CONCENTRATION 4059**  
**A Two-Year Transfer Program Leading to A.S. Degree**

Trained biochemical scientists are much in demand for research and teaching in universities and for research and development work in chemical and pharmaceutical industries, medical laboratories, state and federal governments. Students who complete the 4-year Biochemistry curriculum satisfactorily will be prepared to assume responsible professional positions, undertake advanced work at the graduate level, or attend medical school. This major also is excellent preparation for students who want to enter dental or veterinary schools.

	Credit Hours - A.S.	A.S.		
	PU/ISU <sup>1</sup>	IU <sup>2</sup>	<i>Recommended Sequence of Courses for A.S. (Purdue/ISU<sup>1</sup>)</i>	<i>Recommended Sequence of Courses for A.S. (IU<sup>2</sup>)</i>
<b>Major Program Requirements</b>				
	<b>38</b>	<b>39</b>		
CHEM 106 General Chemistry II.....	3	3	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
CHEM 106L General Chemistry/Qualitative Analysis Laboratory.....	2	-		
CHEM 215 Organic Chemistry I .....	3	3		
CHEM 215L Organic Chemistry Laboratory I.....	2	2		
CHEM 216 Organic Chemistry II .....	3	3		
CHEM 216L Organic Chemistry Laboratory II.....	2	2		
LFSC 105 Principles of Life Science I.....	3	3		
LFSC 105L Principles of Life Science Laboratory I...	1	1		
LFSC 106 Principles of Life Science II .....	3	-		
LFSC 106L Principles of Life Science Laboratory II..	1	-		
LFSC 220 Molecular Biology .....	-	3		
LFSC 230 General Microbiology .....	-	2		
LFSC 230L General Microbiology Laboratory .....	-	2		
MATH 119 Calculus/Analytical Geometry II .....	5	5		
PHYS 205 Physics for Scientists & Engineers I.....	5	5		
PHYS 206 Physics for Scientists & Engineers II.....	4	4		
PHYS 206L Laboratory for Physics for Scientists and Engineers II.....	1	1		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>				
	<b>11</b>	<b>11</b>		
ENGL 101 English Composition I .....	3	3		
MATH 118 Calculus with Analytic Geometry I .....	5	5		
SPCH 143 Speech .....	3	3		
<i>The Reading Intensive requirement may be met by CHEM 106.</i>				
<i>The Writing and Speaking Intensive requirements may be met by CHEM 216L.</i>				
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>				
			<b>Semester I</b>	<b>Semester I</b>
			CHEM 105 .....3	CHEM 105 .....3
			CHEM 105L .....2	CHEM 105L .....2
			ENGL 101 .....3	ENGL 101 .....3
			LFSC 105 .....3	LFSC 105 .....3
			LFSC 105L .....1	LFSC 105L .....1
			MATH 118 (M)..... <u>5</u>	MATH 118 (M)..... <u>5</u>
			Total Hours: 17	Total Hours: 17
			<b>Semester II</b>	<b>Semester II</b>
			CHEM 106(R) .....3	CHEM 106(R) .....3
			CHEM 106L .....2	LFSC 220 .....3
			LFSC 106 .....3	MATH 119 .....5
			LFSC 106L .....1	PHYS 205..... <u>5</u>
			MATH 119 .....5	Total Hours: 16
			PHYS 205 ..... <u>5</u>	
			Total Hours: 19	
			<b>Semester III</b>	<b>Semester III</b>
			CHEM 215 .....3	CHEM 215 .....3
			CHEM 215L .....2	CHEM 215L .....2
			ENGL 102 .....3	LFSC 230 .....2
			PHYS 206 .....4	LFSC 230L .....2
			PHYS 206L .....1	PHYS 206 .....4
			SPCH 143..... <u>3</u>	PHYS 206L .....1
			Total Hours: 16	SPCH 143..... <u>3</u>
				Total Hours: 17
			<b>Semester IV</b>	<b>Semester IV</b>
			CHEM 216 .....3	CHEM 216 .....3
			CHEM 216L(W/S) ..2	CHEM 216L(W/S) ..2
			ECON 201 .....3	HIST 139 .....3
			PFWL 100 .....2	ENGL 102 .....3
			PSYC 142..... <u>3</u>	PFWL 100 .....2
			Total Hours: 13	PHIL 212 .....3
				PSYC 142..... <u>3</u>
				Total Hours: 19

<sup>1</sup> Recommended courses for students transferring to Purdue or Indiana State University.

<sup>2</sup> Recommended courses for students transferring to Indiana University Bloomington.

<b><i>Liberal Education Core</i></b>	<b>16</b>	<b>19</b>
CHEM 105 General Chemistry I .....	3	3
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2	2
ECON 201 Microeconomics .....	3	-
ENGL 102 English Composition II .....	3	3
HIST 139 American History I .....	-	3
PFWL 100 Lifetime Fitness/Wellness .....	2	2
PHIL 212 Introduction to Ethics.....	-	3
PSYC 142 General Psychology .....	3	3

*Computer Skills are enhanced by CHEM 105L. —*

**65 69** —

**NOTE:** Several of the classes listed above have prerequisites. Your high school record and your SAT or CPTS test scores may require you to take classes in addition to those listed in the curriculum shown here.

**BIOLOGICAL AND PHYSICAL SCIENCES – BIOLOGY CONCENTRATION 4060**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is intended for students planning careers in the life sciences. Since transfer institutions differ in the courses they require for biology majors, and since course work varies with the area of specialization, students should consult their advisor to tailor their program to their own individual needs.

	<b>Credit Hours</b>																																																																					
<b>Major Program Requirements</b>	<b>31-32</b>																																																																					
CHEM 106 General Chemistry II.....	3	<table border="1"> <tr> <td align="center" colspan="2"><b>Recommended Sequence of Courses</b></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>CHEM 105 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 105L.....</td> <td align="right">2</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105L.....</td> <td align="right">1</td> </tr> <tr> <td>MATH 102(M).....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>CHEM 106 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 106L(W) .....</td> <td align="right">2</td> </tr> <tr> <td>ENGL 102/210 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 106(R) .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 106L.....</td> <td align="right">1</td> </tr> <tr> <td>SPCH 143/148.....</td> <td align="right">3</td> </tr> <tr> <td>Elective.....</td> <td align="right">0-3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15-18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>CHEM 215 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 215L.....</td> <td align="right">2</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>Elective.....</td> <td align="right">3</td> </tr> <tr> <td>Approved Life Science Elec(S) .....</td> <td align="right">4</td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>CHEM 216 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 216L.....</td> <td align="right">2</td> </tr> <tr> <td>Approved Life Science Elec(S) .....</td> <td align="right">4-5</td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td>Humanities Elec .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15-16</td> </tr> </table>	<b>Recommended Sequence of Courses</b>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		CHEM 105 .....	3	CHEM 105L.....	2	ENGL 101 .....	3	LFSC 105 .....	3	LFSC 105L.....	1	MATH 102(M).....	3	Total Hours: 15		<b>Semester II</b>		CHEM 106 .....	3	CHEM 106L(W) .....	2	ENGL 102/210 .....	3	LFSC 106(R) .....	3	LFSC 106L.....	1	SPCH 143/148.....	3	Elective.....	0-3	Total Hours: 15-18		<b>Semester III</b>		CHEM 215 .....	3	CHEM 215L.....	2	PFWL 100 .....	2	Elective.....	3	Approved Life Science Elec(S) .....	4	Soc Sci Elective .....	3	Total Hours: 17		<b>Semester IV</b>		CHEM 216 .....	3	CHEM 216L.....	2	Approved Life Science Elec(S) .....	4-5	Soc Sci Elective .....	3	Humanities Elec .....	3	Total Hours: 15-16	
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ENGL 101 .....	3																																																																					
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CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2																																																																					
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LFSC 105 Principles of Life Science I.....	3																																																																					
LFSC 105L Principles of Life Science Laboratory I .....	1																																																																					
LFSC 106 Principles of Life Science II .....	3																																																																					
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<b>General Education Requirements</b>																																																																						
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<b>Basic Skills Core</b>	<b>9</b>																																																																					
ENGL 101 English Composition I .....	3																																																																					
MATH 102 College Algebra.....	3																																																																					
SPCH 143 Speech -or-																																																																						
SPCH 148 Interpersonal Communication .....	3																																																																					
<i>The Reading Intensive requirement may be met by LFSC 106.</i>																																																																						
<i>The Writing Intensive requirement may be met by CHEM 106L.</i>																																																																						
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<i>The Mathematics Intensive requirement may be met by MATH 102.</i>																																																																						
<b>Liberal Education Core</b>	<b>22-25</b>																																																																					
CHEM 105 General Chemistry I .....	3																																																																					
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2																																																																					
ENGL 102 English Composition II -or-																																																																						
ENGL 210 Advanced Expository Writing .....	3																																																																					
PFWL 100 Lifetime Fitness/Wellness .....	2																																																																					
Humanities Elective – Common Core List List <sup>2</sup> .....	3																																																																					
Social Science Electives – Core List .....	6																																																																					
Elective(s) <sup>3</sup> .....	3-6																																																																					
<i>Computer Skills are enhanced by CHEM 105L.</i>																																																																						
	<b>62-66</b>																																																																					

<sup>1</sup> Select two courses from LFSC 211/211L-212/212L, LFSC 230/230L, LFSC 220/220L, and LFSC 308. Students wishing to complete the Pre-Chiropractic Supplement Certificate should select LFSC 211/211L-212/212L.

<sup>2</sup> Students wishing to complete the Pre-Chiropractic Supplemental Certificate should select PHIL 212.

<sup>3</sup> Select one course from MATH 104, MATH 110, MATH 115, MATH 118, or PHYS 105/105L. Students wishing to complete the Pre-Chiropractic Supplement Certificate should select MGMT 275 and PHED 294.



**BIOLOGICAL AND PHYSICAL SCIENCES – BIOTECHNOLOGY CONCENTRATION 4064**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is intended for students planning to transfer for the completion of the bachelor's degree in biotechnology. This program is specifically intended to transfer to Indiana University-Bloomington, where B.S. graduates in Biotechnology may either enter into the fields of pharmaceutical manufacturing and life science research or continue their education in graduate or professional programs. The Biotechnology concentration addresses a growing need for life scientists who understand biological, genetic, and physiological phenomena and want to apply this knowledge to the development of new products and processes. Applications of biotechnology are found in all areas of life science, including agriculture, medicine, the pharmaceutical industry, law enforcement, environmental science, and basic research.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>36</b>	<p align="center"><b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p align="center"><b>Semester I</b></p> <p>CHEM 105 .....3            CHEM 105L..... 2            ENGL 101 .....3            LFSC 105 .....3            LFSC 105L..... 1            MATH 118(M)..... 5            Total Hours: 17</p> <hr/> <p align="center"><b>Semester II</b></p> <p>CHEM 106(R) .....3            CHEM 106L(W) .....2            ENGL 102 .....3            FREN 201/GRMN 201/SPAN 201 ..... 4            SPCH 143 .....3            Total Hours: 15</p> <hr/> <p align="center"><b>Semester III</b></p> <p>CHEM 215 .....3            CHEM 215L(W/S) .....2            ECON 201(R) .....3            HIST 139 .....3            LFSC 230(R) .....2            LFSC 230L ..... 2            PFWL 100 ..... 2            Total Hours: 17</p> <hr/> <p align="center"><b>Semester IV</b></p> <p>CHEM 216 .....3            LFSC 220(R/W/S) .....3            LFSC 220L ..... 2            PHIL 212(R/W/S) .....3            PHYS 105 .....4            PHYS 105L ..... 1            Total Hours: 16</p>
CHEM 105 General Chemistry I .....	3	
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2	
CHEM 106 General Chemistry II.....	3	
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2	
CHEM 215 Organic Chemistry I .....	3	
CHEM 215L Organic Chemistry Laboratory I.....	2	
CHEM 216 Organic Chemistry II .....	3	
LFSC 105 Principles of Life Science I.....	3	
LFSC 105L Principles of Life Science Laboratory I .....	1	
LFSC 220 Molecular Biology .....	3	
LFSC 220L Laboratory in Molecular Biology .....	2	
LFSC 230 General Microbiology .....	2	
LFSC 230L General Microbiology Laboratory .....	2	
PHYS 105 General Physics I .....	4	
PHYS 105L General Physics Laboratory I.....	1	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>11</b>	
ENGL 101 English Composition I .....	3	
MATH 118 Calculus with Analytic Geometry I .....	5	
SPCH 143 Speech .....	3	
<i>The Reading Intensive requirement may be met by CHEM 106 or ECON 201 or LFSC 220 or LFSC 230 or PHIL 212.</i>		
<i>The Writing Intensive requirement may be met by CHEM 106L or CHEM 215L or LFSC 220 or PHIL 212.</i>		
<i>The Speaking Intensive requirement may be met by CHEM 215L or LFSC 220 or PHIL 212.</i>		
<i>The Mathematics Intensive requirement may be met by MATH 118.</i>		
<b>Liberal Education Core</b>	<b>18</b>	
ENGL 102 English Composition II .....	3	
ECON 201 Microeconomics .....	3	
FREN 201 French Level III -or- GRMN 201 German Level III -or- SPAN 201 Spanish Level III .....	4	
HIST 139 American History I .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PHIL 212 Introduction to Ethics.....	3	
<i>Computer Skills are enhanced by CHEM 105L</i>		

**BIOLOGICAL AND PHYSICAL SCIENCES**  
**BIOTECHNOLOGY LABORATORY ASSISTANT CONCENTRATION 4510**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum prepares students for careers in biological or pharmaceutical laboratories as a technical assistant. Students may also continue at a transfer institution for a baccalaureate degree.

	Credit Hours	<i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)
<b>Major Program Requirements</b>	<b>32</b>	
CHEM 106 General Chemistry II.....	3	
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2	
CHEM 215 Organic Chemistry I .....	3	
CHEM 215L Organic Chemistry Laboratory I.....	2	
CSCI 126 Introduction to Computer Tools for Scientists and Engineers .....	3	
LFSC 105 Principles of Life Science I.....	3	
LFSC 105L Principles of Life Science Laboratory I .....	1	
LFSC 106 Principles of Life Science II .....	3	
LFSC 106L Principles of Life Science Laboratory II.....	1	
LFSC 220 Molecular Biology .....	3	
LFSC 220L Molecular Biology Laboratory.....	2	
LFSC 230 General Microbiology .....	2	
LFSC 230L General Microbiology Laboratory .....	2	
Elective .....	2	
<b>Semester I</b>		
		CHEM 105 .....3
		CHEM 105L..... 2
		ENGL 101 .....3
		LFSC 105 .....3
		LFSC 105L..... 1
		MATH 102(M)..... 3
		Total Hours: 15
<b>Semester II</b>		
		CHEM 106(R) .....3
		CHEM 106L(W) .....2
		CSCI 126 .....3
		LFSC 106(R) .....3
		LFSC 106L..... 1
		MATH 104/110..... 3
		Total Hours: 15
<b>Semester III</b>		
		CHEM 215 .....3
		CHEM 215L(W/S) ....2
		LFSC 230(R) .....2
		LFSC 230L..... 2
		PFWL 100 .....2
		SPCH 143/148(W) ....3
		Social Science Elec... 3
		Total Hours: 17
<b>Semester IV</b>		
		LFSC 220(R/W/S) .....3
		LFSC 220L..... 2
		Humanities Elec..... 3
		Social Science Elec....3
		Writing Course..... 3
		Elective..... 2
		Total Hours: 16
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 102 College Algebra.....	3	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading Intensive requirement may be met by CHEM 106 or LFSC 106 or LFSC 220 or LFSC 230.</i>		
<i>The Writing Intensive requirement may be met by CHEM 106L or CHEM 215L or LFSC 220 or SPCH 148.</i>		
<i>The Speaking Intensive requirement may be met by CHEM 215L or LFSC 220.</i>		
<i>The Mathematics Intensive requirement may be met by MATH 102.</i>		
<b>Liberal Education Core</b>	<b>22</b>	
CHEM 105 General Chemistry I.....	3	
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2	
MATH 104 Trigonometry -or-		
MATH 110 Statistics .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
Humanities Elective – Common Core List .....	3	
Social Science Electives – Core List .....	6	
Writing Skills Course (ENGL 102, 107, 108, 109, 205, or 210) .....	3	
<i>Computer Skills are enhanced by CSCI 126.</i>		
	<b>63</b>	

**BIOLOGICAL AND PHYSICAL SCIENCES – CHEMISTRY CONCENTRATION 4090**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This program is designed for students wishing to prepare for careers as research or industrial chemists and planning to complete an American Chemical Society accredited degree.

	Credit Hours - A.S.	A.S.		
	Purdue <sup>1</sup>	IU <sup>2</sup>		
<b>Major Program Requirements</b>	<b>38</b>	<b>34</b>		
CHEM 105 General Chemistry I .....	3	3	<i>Recommended Sequence of Courses for A.S. (Purdue<sup>1</sup>)</i> (This assumes any necessary developmental requirements have been met.)	<i>Recommended Sequence of Courses for A.S. (IU<sup>2</sup>)</i> (This assumes any necessary developmental requirements have been met.)
CHEM 105L General Chemistry/Quantitative Analysis Laboratory.....	2	2		
CHEM 106 General Chemistry II.....	3	3		
CHEM 106L General Chemistry/Qualitative Analysis Laboratory.....	2	2		
CHEM 215 Organic Chemistry I .....	3	3		
CHEM 215L Organic Chemistry Laboratory I.....	2	2		
CHEM 216 Organic Chemistry II .....	3	3		
CHEM 216L Organic Chemistry Laboratory II.....	2	2		
MATH 119 Calculus/Analytical Geometry II .....	5	5		
MATH 220 Intermediate Calculus .....	4	4		
MATH 223 Differential Equations with Linear Algebra .....	4	-		
PHYS 205 Physics for Scientists & Engineers I.....	5	5		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>	<b>11</b>	<b>11</b>		
ENGL 101 English Composition I .....	3	-		
ENGL 112 Rhetoric and Research .....	-	3		
MATH 118 Calculus with Analytic Geometry I .....	5	5		
SPCH 148 Interpersonal Communication .....	3	3		
<i>The Reading Intensive requirement may be met by CHEM 106.</i>				
<i>The Writing and Speaking Intensive requirements may be met by CHEM 215L.</i>				
<i>The Mathematics Intensive requirement may be met by MATH 118.</i>				
<b>Liberal Education Core</b>	<b>19</b>	<b>19</b>		
ENGL 102 English Composition II .....	3	-		
HIST 132 Survey of European History II.....	-	3		
HIST 139 American History I .....	3	-		
HIST 140 American History II.....	3	-		
PFWL 100 Lifetime Fitness/Wellness .....	2	2		
PHIL 212 Introduction to Ethics.....	3	3		
PHYS 206 Physics for Scientists & Engineers II.....	4	4		
PHYS 206L Laboratory for Physics for Scientists and Engineers II.....	1	1		
PSYC 142 General Psychology .....	-	3		
SOCL 151 Principles of Sociology .....	-	3		
<i>Computer Skills are enhanced by CHEM 105L.</i>				
	<b>68</b>	<b>64</b>		

<b>Semester I</b>		<b>Semester I</b>	
CHEM 105 .....	3	CHEM 105 .....	3
CHEM 105L .....	2	CHEM 105L .....	2
ENGL 101 .....	3	ENGL 112 .....	3
MATH 118(M) .....	5	MATH 118(M) .....	5
SPCH 148.....	3	SPCH 148.....	3
Total Hours: 16		Total Hours: 16	
<b>Semester II</b>		<b>Semester II</b>	
CHEM 106(R) .....	3	CHEM 106(R) .....	3
CHEM 106L .....	2	CHEM 106L .....	2
MATH 119 .....	5	MATH 119 .....	5
HIST 139 .....	3	PFWL 100 .....	2
PHYS 205 .....	5	PHYS 205.....	5
Total Hours: 18		Total Hours: 17	
<b>Semester III</b>		<b>Semester III</b>	
CHEM 215 .....	3	CHEM 215 .....	3
CHEM 215L(W/S) ..	2	CHEM 215L(W/S) ..	2
ENGL 102 .....	3	MATH 220 .....	4
MATH 220.....	4	PHYS 206 .....	4
PHYS 206 .....	4	PHYS 206L.....	1
PHYS 206L.....	1	Total Hours: 14	
Total Hours: 17			
<b>Semester IV</b>		<b>Semester IV</b>	
CHEM 216 .....	3	CHEM 216 .....	3
CHEM 216L .....	2	CHEM 216L .....	2
HIST 140 .....	3	HIST 132 .....	3
MATH 223 .....	4	PHIL 212 .....	3
PFWL 100 .....	2	PSYC 142.....	3
PHIL 212.....	3	SOCL 151.....	3
Total Hours: 17		Total Hours: 17	

**NOTE:** Several of the classes listed above have prerequisites. Your high school record and your SAT or CPTS test scores may require you to take classes in addition to those listed in the curriculum shown here.

<sup>1</sup> Recommended courses for students transferring to Purdue University. Students transferring to ISU should follow the Purdue column but substitute SPCH 143 for SPCH 148 and PSYC 142 for HIST 140. They do not need to take MATH 223.

<sup>2</sup> Recommended courses for students transferring to Indiana University. Students transferring to IUPUI should follow the IU column but substitute ENGL 101/102 for ENGL 112, SOCL 154 for PSYC 142, and SPCH 143 for SPCH 148.

**BIOLOGICAL AND PHYSICAL SCIENCES**  
**CHEMISTRY LABORATORY ASSISTANT CONCENTRATION 4540**  
**A Two-Year Program Leading to the A.A.S. Degree**

This curriculum prepares students to serve as technical assistants in laboratories for chemical research and production.

	Credit Hours	<i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)
<b>Major Program Requirements</b>	<b>40</b>	
CHEM 106 General Chemistry II.....	3	
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2	
CHEM 204 Elementary Quantitative Analysis .....	4	
CHEM 215 Organic Chemistry I .....	3	
CHEM 215L Organic Chemistry Laboratory I.....	2	
CHEM 216 Organic Chemistry II .....	3	
CHEM 216L Organic Chemistry Laboratory II.....	2	
CSCI 126 Introduction to Computer Tools for Scientists and Engineers .....	3	
LFSC 105 Principles of Life Science I.....	3	
LFSC 105L Principles of Life Science Laboratory I .....	1	
LFSC 106 Principles of Life Science II .....	3	
LFSC 106L Principles of Life Science Laboratory II.....	1	
PHYS 105 General Physics I .....	4	
PHYS 105L General Physics Laboratory I.....	1	
PHYS 106 General Physics II .....	4	
PHYS 106L General Physics Laboratory II .....	1	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 102 College Algebra .....	3	
SPCH 143 Speech .....	3	
<i>The Reading Intensive requirement may be met by CHEM 106.</i>		
<i>The Writing and Speaking Intensive requirements may be met by CHEM 215L.</i>		
<i>The Mathematics Intensive requirement may be met by MATH 102.</i>		
<b>Liberal Education Core</b>	<b>16</b>	
CHEM 105 General Chemistry I .....	3	
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2	
ECON 201 Microeconomics .....	3	
MATH 104 Trigonometry .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
Humanities Elective – Common Core List <sup>1</sup> .....	3	
<i>Computer Skills are enhanced by CSCI 126. ___</i>		
	<b>65</b>	
<b>Semester I</b>		
CHEM 105 .....	3	
CHEM 105L.....	2	
ENGL 101 .....	3	
LFSC 105 .....	3	
LFSC 105L.....	1	
MATH 102.....	3	
Total Hours:	15	
<b>Semester II</b>		
CHEM 106(R) .....	3	
CHEM 106L.....	2	
LFSC 106 .....	3	
LFSC 106L.....	1	
MATH 104(M) .....	3	
SPCH 143.....	3	
Total Hours:	15	
<b>Semester III</b>		
CHEM 215 .....	3	
CHEM 215L(W/S) .....	2	
CSCI 126 .....	3	
PFWL 100 .....	2	
PHYS 105 .....	4	
PHYS 105L.....	1	
Humanities Elec.....	3	
Total Hours:	18	
<b>Semester IV</b>		
CHEM 204 .....	4	
CHEM 216 .....	3	
CHEM 216L.....	2	
ECON 201 .....	3	
PHYS 106 .....	4	
PHYS 106L.....	1	
Total Hours:	17	

<sup>1</sup> Students should select from the following Humanities Common Core courses based on where they plan to transfer: ARTT 110 Art Appreciation, LITR 220 Introduction to World Literature I, LITR 222 American Literature I, MUSM 118 Music Appreciation, PHIL 111 Introduction to Philosophy and PHIL 112 Introduction to Ethics.

**BIOLOGICAL AND PHYSICAL SCIENCES – PHYSICS CONCENTRATION 4860**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This program is designed to assist students wishing to major in physics at a transfer institution. Students should check specific requirements of the respective transfer institution concerning the type of electives to be taken.

	<b>Credit Hours</b>		
<b>Major Program Requirements</b>	<b>33</b>		
CSCI 126 Introduction to Computer Tools for Scientists and Engineers .....	3	<p align="center"><i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>CHEM 105 .....3            CHEM 105L..... 2            CSCI 126 .....3            ENGL 101 .....3            MATH 118(M)..... 5            Total Hours: 16</p> <hr/> <p><b>Semester II</b></p> <p>CHEM 106(R) .....3            CHEM 106L..... 2            MATH 119 .....5            PHYS 205(W) ..... 5            SPCH 143 ..... 3            Total Hours: 18</p> <hr/> <p><b>Semester III</b></p> <p>ENGL 102 .....3            MATH 220 .....4            PHYS 206 .....4            PHYS 206L ..... 1            Soc Sci Elective ..... 3            Humanities Elec ..... 3            Total Hours: 18</p> <hr/> <p><b>Semester IV</b></p> <p>CSCI 159 .....3            MATH 223 .....4            PFWL 100 .....2            PHYS 300/300L(S)            -or- Approved Elec .. 4            Soc Sci Elective ..... 3            Total Hours: 16</p>	
CSCI 159 C Programming for Scientists and Engineers.....	3		
MATH 119 Calculus with Analytic Geometry II .....	5		
MATH 220 Intermediate Calculus .....	4		
MATH 223 Differential Equations with Linear Algebra.....	4		
PHYS 205 Physics for Scientists and Engineers I.....	5		
PHYS 206 Physics for Scientists and Engineers II .....	4		
PHYS 206L Laboratory for Physics for Scientists and Engineers II.....	1		
PHYS 300 Physics III -and-			
PHYS 300L Advanced Physics Laboratory -or-			
Approved Elective .....	4		
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b>	<b>11</b>		
ENGL 101 English Composition I .....	3		
MATH 118 Calculus with Analytic Geometry I <sup>1</sup> .....	5		
SPCH 143 Speech .....	3		
<i>The Reading Intensive requirement may be met by CHEM 106.</i>			
<i>The Speaking Intensive requirement may be met by PHYS 300 or ENGR 218L or ENGR 270L.</i>			
<i>The Writing Intensive requirement may be met by PHYS 205.</i>			
<i>The Mathematics Intensive requirement may be met by MATH 118.</i>			
<b>Liberal Education Core</b>	<b>24</b>		
CHEM 105 General Chemistry I .....	3		
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2		
CHEM 106 General Chemistry II.....	3		
CHEM 106L General Chemistry/Quantitative Analysis Laboratory .....	2		
ENGL 102 English Composition II .....	3		
PFWL 100 Lifetime Fitness/Wellness .....	2		
Humanities Elective – Common Core List.....	3		
Social Science Elective – Core List .....	6		
<i>Computer Skills are enhanced by CSCI 126 and 159. ___</i>			
	<b>68</b>		

<sup>1</sup> If developmental courses are required, more time may be required to complete the program.

**BIOLOGICAL AND PHYSICAL SCIENCES – PRE-CHIROPRACTIC CONCENTRATION 4061**  
**A Two-Year Transfer Program Leading to A.S. Degree**

A Doctor of Chiropractic is a primary health care provider whose emphasis is the relationship of the structural and neurological aspects of the body, primarily the spine and nervous system. Drugs and surgery are not part of the chiropractic philosophy. This program provides the general education and supportive courses for transfer to a College of Chiropractic. This program has been developed in cooperation with Logan, Palmer, Los Angeles, and other colleges of chiropractic medicine to meet their current admission requirements. However, the application process is competitive at colleges of chiropractic. Completion of these prerequisites does not guarantee acceptance by a college of chiropractic. The colleges remind students that requirements frequently change. It is the students' responsibility to check with the college that they are planning to attend to be sure all requirements for admission are met.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>29-31</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
CHEM 106 General Chemistry II.....	3	
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2	
CHEM 215 Organic Chemistry I .....	3	
CHEM 215L Organic Chemistry Laboratory I.....	2	
CHEM 216 Organic Chemistry II .....	3	
CHEM 216L Organic Chemistry Laboratory II.....	2	
LFSC 105 Principles of Life Science I -or-		<b>Semester I</b>
LFSC 111 Anatomy and Physiology I.....	2-3	CHEM 105 .....3
LFSC 105L Principles of Life Science Laboratory I -or-		CHEM 105L..... 2
LFSC 111L Anatomy and Physiology Laboratory I .....	1	ENGL 101 .....3
LFSC 106 Principles of Life Science II -or-		LFSC 105/111 .....2-3
LFSC 112 Anatomy and Physiology II .....	2-3	LFSC 105L/111L ..... 1
LFSC 106L Principles of Life Science Laboratory II -or-		PSYC 142 ..... 3
LFSC 112L Anatomy and Physiology Laboratory II.....	1	Total Hours: 14-15
PHYS 106 General Physics II .....	4	<b>Semester II</b>
PHYS 106L General Physics Laboratory II .....	1	CHEM 106 .....3
PSYC 142 General Psychology .....	3	CHEM 106L(W) .....2
		LFSC 106(R)/112 .....2-3
		LFSC 106L/112L ..... 1
		MATH 102(M) .....3
		PFWL 100 .....2
		SPCH 143 ..... 3
		Total Hours: 16-17
<b>General Education Requirements</b>		<b>Semester III</b>
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		CHEM 215 .....3
<b>Basic Skills Core</b>	<b>9</b>	CHEM 215L(S) .....2
ENGL 101 English Composition I .....	3	PHYS 105 .....4
MATH 102 College Algebra.....	3	PHYS 105L ..... 1
SPCH 143 Speech .....	3	Soc Sci Elective .....3
		Writing Skills
		Course ..... 3
		Total Hours: 16
<i>The Reading Intensive requirement may be met by LFSC 106.</i>		<b>Semester IV</b>
<i>The Writing Intensive requirement may be met by CHEM 106L.</i>		CHEM 216 .....3
<i>The Speaking Intensive requirement may be met by CHEM 215L.</i>		CHEM 216L..... 2
<i>The Mathematics Intensive requirement may be met by MATH 102.</i>		PHYS 106 .....4
		PHYS 106L ..... 1
		Soc Sci Elective ..... 3
		Humanities Elec ..... 3
		Total Hours: 16
<b>Liberal Education Core</b>	<b>24</b>	
Writing Skills Course (ENGL 102, 107, 108, 205 or 210) .....	3	
CHEM 105 General Chemistry I .....	3	
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PHYS 105 General Physics I .....	4	
PHYS 105L General Physics Laboratory I.....	1	
Humanities Elective – Common Core List .....	3	
Social Science Electives – Core List .....	6	
<i>Computer Skills are enhanced by CHEM 215L.</i>		

**BIOLOGICAL AND PHYSICAL SCIENCES  
PRE-CHIROPRACTIC SUPPLEMENTAL CERTIFICATE 4065  
A One-Year Certificate of Program Completion**

A Doctor of Chiropractic is a primary health care provider whose emphasis is the relationship of the structural and neurological aspects of the body, primarily the spine and nervous system. Drugs and surgery are not part of the chiropractic philosophy. This certificate, when added to the Biology (4060) A.S. degree, provides the general education and supportive courses for transfer to a College of Chiropractic. This certificate has been developed in cooperation with Logan College of Chiropractic to meet their current admission requirements. However, the application process is competitive and completion of these prerequisites does not guarantee acceptance. Students considering application to other Chiropractic colleges should check with the colleges that they are planning to attend to be sure all requirements for admission are met.

	<b>Credit Hours</b>	
HCMG 301 Seminar in Health Care Services .....	3	<p style="text-align: center;"><i><b>Recommended Sequence of Courses</b></i> (This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester V</b></p> <p>HCMG 301 .....3            HCMG 401 .....3            LFSC 230 .....2            LFSC 230L .....2            PHYS 105 .....4            PHYS 105L .....1            Total Hours: 15</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester VI</b></p> <p>HCMG 351 .....3            HCMG 436 .....3            LFSC 312 .....4            PHYS 106 .....4            Total Hours: 14</p>
HCMG 351 Medical Practice Management.....	3	
HCMG 401 Finance in Health Care Organizations II.....	3	
HCMG 436 Health Care Economics.....	3	
LFSC 230 General Microbiology .....	2	
LFSC 230L General Microbiology Laboratory .....	2	
LFSC 312 Pathophysiology .....	4	
PHYS 105 General Physics I .....	4	
PHYS 105L General Physics Laboratory I.....	1	
PHYS 106 General Physics II .....	4	
	<b>29</b>	

**BIOLOGICAL AND PHYSICAL SCIENCES**  
**PRE-CLINICAL LABORATORY SCIENCES 4690**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

Clinical Laboratory Scientists play a very vital role as members of a total health care team by performing a wide variety of chemical and biological tests and other functions in medical laboratories. This program is designed to transfer to a baccalaureate institution as a baccalaureate degree is required to become a medical technologist. Upon completion of the baccalaureate degree, students are eligible to take the examination of the Board of Registry from the American Society of Clinical Pathologists. The Registry examination must be passed in order to earn certification as a Registered Medical Technologist.

	Credit Hours - A.S.	A.S.		
	ISU <sup>1</sup>	Purdue <sup>2</sup>		
<b>Major Program Requirements</b>	<b>31</b>	<b>33</b>		
CHEM 106 General Chemistry II.....	3	3	<i>Recommended Sequence of Courses for A.S. (ISU<sup>1</sup>)</i> (This assumes any necessary developmental requirements have been met.)	<i>Recommended Sequence of Courses for A.S. (Purdue<sup>2</sup>)</i> (This assumes any necessary developmental requirements have been met.)
CHEM 106L General Chemistry/Qualitative Analysis Laboratory.....	2	2		
CHEM 215 Organic Chemistry I.....	3	3		
CHEM 215L Organic Chemistry Laboratory I.....	2	2		
CHEM 216 Organic Chemistry II.....	3	-		
CHEM 216L Organic Chemistry Laboratory II.....	2	-		
LFSC 105 Principles of Life Science I.....	3	3		
LFSC 105L Principles of Life Science Laboratory I...	1	1		
LFSC 106 Principles of Life Science II.....	3	3		
LFSC 106L Principles of Life Science Laboratory II..	1	1		
LFSC 111 Anatomy and Physiology I.....	-	2		
LFSC 111L Anatomy and Physiology Laboratory I....	-	1		
LFSC 211 Human Systems I: Anatomy and Physiology <sup>3</sup> .....	3	-		
LFSC 211L Human Systems I: Anatomy and Physiology Laboratory <sup>3</sup> .....	1	-		
LFSC 230 General Microbiology.....	2	2		
LFSC 230L General Microbiology Laboratory.....	2	2		
MATH 116 Survey of Calculus II.....	-	3		
PHYS 105 General Physics I.....	-	4		
PHYS 105L General Physics Laboratory I.....	-	1		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>		
ENGL 101 English Composition I.....	3	3		
MATH 110 Statistics.....	3	-		
MATH 115 Survey of Calculus I.....	-	3		
SPCH 143 Speech.....	3	3		
<i>The Reading Intensive requirement may be met by LFSC 106.</i>				
<i>The Writing and Speaking Intensive requirements may be met by CHEM 215L.</i>				
<i>The Mathematics Intensive requirement may be met by MATH 102<sup>3</sup>, 110 or 115.</i>				
			<b>Semester I</b>	<b>Semester I</b>
			CHEM 105.....3	CHEM 105.....3
			CHEM 105L.....2	CHEM 105L.....2
			ENGL 101.....3	ENGL 101.....3
			LFSC 105.....3	LFSC 105.....3
			LFSC 105L.....1	LFSC 105L.....1
			HIST 139.....3	PSYC 142.....3
			Total Hours: 15	SPCH 143.....3
				Total Hours: 18
			<b>Semester II</b>	<b>Semester II</b>
			CHEM 106.....3	CHEM 106.....3
			CHEM 106L.....2	CHEM 106L.....2
			ENGL 102.....3	ENGL 102.....3
			LFSC 106 (R).....3	LFSC 106 (R).....3
			LFSC 106L.....1	LFSC 106L.....1
			PFWL 100.....2	MATH 115 (M).....3
			SPCH 143.....3	PFWL 100.....2
			Total Hours: 17	Total Hours: 17
			<b>Semester III</b>	<b>Semester III</b>
			CHEM 215.....3	CHEM 215.....3
			CHEM 215L(W/S) 2	CHEM 215L(W/S) .2
			LFSC 211.....3	LFSC 111.....2
			LFSC 211L.....1	LFSC 111L.....1
			LFSC 230.....2	LFSC 230.....2
			LFSC 230L.....2	LFSC 230L.....2
			PSYC 142.....3	PHYS 105.....4
			Total Hours: 16	PHYS 105L.....1
				Total Hours: 17
			<b>Semester IV</b>	<b>Semester IV</b>
			CHEM 216.....3	MATH 116.....3
			CHEM 216L.....2	PHYS 106.....4
			MATH 110 (M).....3	PHYS 106L.....1
			PHYS 106.....4	PHIL 212.....3
			PHYS 106L.....1	SOCL 151.....3
			PHIL 212.....3	Total Hours: 14
			Total Hours: 16	

<sup>1</sup> Recommended courses for students transferring to Indiana State University.

<sup>2</sup> Recommended courses for students transferring to Purdue.

<sup>3</sup> Students transferring to IUPUI should complete MATH 102 and MATH 104 instead of LFSC 211/211L.



<b><i>Liberal Education Core</i></b>	<b>24</b>	<b>24</b>
CHEM 105 General Chemistry I .....	3	3
CHEM 105L General Chemistry/Quantitative Analysis Laboratory.....	2	2
ENGL 102 English Composition II .....	3	3
HIST 139 American History I .....	3	-
PFWL 100 Lifetime Fitness/Wellness .....	2	2
PHIL 212 Introduction to Ethics.....	3	3
PHYS 106 General Physics II <sup>1</sup> .....	4	4
PHYS 106L General Physics Laboratory II <sup>1</sup> .....	1	1
PSYC 142 General Psychology .....	3	3
SOCL 151 Principles of Sociology .....	-	3

*Computer Skills are enhanced by CHEM 105L.*

— **64** **66**

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<sup>1</sup> Students transferring to IUPUI do not need to complete PHYS 106/106L.

**BIOLOGICAL AND PHYSICAL SCIENCES – PRE-DENTISTRY CONCENTRATION 4210**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

The courses in this concentration have been selected because they are among the courses required for admission to many dental schools. Students should confirm that these courses are included as a part of the admission requirements for the dental school to which they wish to apply. Admission to most dental schools occurs after three or four years of undergraduate study. For that reason, students should work toward a baccalaureate degree that includes the courses in this concentration.

	<b>Credit Hours</b>																																																																									
<b>Major Program Requirements</b>	<b>33</b>	<table border="1"> <tr> <td align="center" colspan="2"><b>Recommended Sequence of Courses</b></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>CHEM 105 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 105L .....</td> <td align="right">2</td> </tr> <tr> <td>ENGL 112 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105L .....</td> <td align="right">1</td> </tr> <tr> <td>PSYC 142 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>CHEM 106(R) .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 106L .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 106 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 106L .....</td> <td align="right">1</td> </tr> <tr> <td>MATH 111(M) .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 148 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>CHEM 215 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 215L(W/S) .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 211 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 211L .....</td> <td align="right">1</td> </tr> <tr> <td>PHIL 212 .....</td> <td align="right">3</td> </tr> <tr> <td>PHYS 105 .....</td> <td align="right">4</td> </tr> <tr> <td>PHYS 105L .....</td> <td align="right">1</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>CHEM 102 .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 212 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 212L .....</td> <td align="right">1</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>PHYS 106 .....</td> <td align="right">4</td> </tr> <tr> <td>PHYS 106L .....</td> <td align="right">1</td> </tr> <tr> <td>POLS 210 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> </table>	<b>Recommended Sequence of Courses</b>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		CHEM 105 .....	3	CHEM 105L .....	2	ENGL 112 .....	3	LFSC 105 .....	3	LFSC 105L .....	1	PSYC 142 .....	3	Total Hours: 15		<b>Semester II</b>		CHEM 106(R) .....	3	CHEM 106L .....	2	LFSC 106 .....	3	LFSC 106L .....	1	MATH 111(M) .....	3	SPCH 148 .....	3	Total Hours: 15		<b>Semester III</b>		CHEM 215 .....	3	CHEM 215L(W/S) .....	2	LFSC 211 .....	3	LFSC 211L .....	1	PHIL 212 .....	3	PHYS 105 .....	4	PHYS 105L .....	1	Total Hours: 17		<b>Semester IV</b>		CHEM 102 .....	2	LFSC 212 .....	3	LFSC 212L .....	1	PFWL 100 .....	2	PHYS 106 .....	4	PHYS 106L .....	1	POLS 210 .....	3	Total Hours: 16	
<b>Recommended Sequence of Courses</b>																																																																										
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<b>Semester I</b>																																																																										
CHEM 105 .....	3																																																																									
CHEM 105L .....	2																																																																									
ENGL 112 .....	3																																																																									
LFSC 105 .....	3																																																																									
LFSC 105L .....	1																																																																									
PSYC 142 .....	3																																																																									
Total Hours: 15																																																																										
<b>Semester II</b>																																																																										
CHEM 106(R) .....	3																																																																									
CHEM 106L .....	2																																																																									
LFSC 106 .....	3																																																																									
LFSC 106L .....	1																																																																									
MATH 111(M) .....	3																																																																									
SPCH 148 .....	3																																																																									
Total Hours: 15																																																																										
<b>Semester III</b>																																																																										
CHEM 215 .....	3																																																																									
CHEM 215L(W/S) .....	2																																																																									
LFSC 211 .....	3																																																																									
LFSC 211L .....	1																																																																									
PHIL 212 .....	3																																																																									
PHYS 105 .....	4																																																																									
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CHEM 102 .....	2																																																																									
LFSC 212 .....	3																																																																									
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PHYS 106 .....	4																																																																									
PHYS 106L .....	1																																																																									
POLS 210 .....	3																																																																									
Total Hours: 16																																																																										
CHEM 102 Scientific and Decorative Glass Working .....	2																																																																									
CHEM 106 General Chemistry II .....	3																																																																									
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2																																																																									
CHEM 215 Organic Chemistry I <sup>1</sup> .....	3																																																																									
CHEM 215L Organic Chemistry Laboratory I .....	2																																																																									
LFSC 105 Principles of Life Science I .....	3																																																																									
LFSC 105L Principles of Life Science Laboratory I .....	1																																																																									
LFSC 106 Principles of Life Science II .....	3																																																																									
LFSC 106L Principles of Life Science Laboratory II .....	1																																																																									
LFSC 211 Human Systems I: Anatomy and Physiology .....	3																																																																									
LFSC 211L Human Systems I: Anatomy and Physiology Laboratory .....	1																																																																									
LFSC 212 Human Systems II: Anatomy and Physiology .....	3																																																																									
LFSC 212L Human Systems II: Anatomy and Physiology Laboratory .....	1																																																																									
PHYS 106 General Physics II .....	4																																																																									
PHYS 106L General Physics Laboratory II .....	1																																																																									
<b>General Education Requirements</b>																																																																										
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>																																																																										
<b>Basic Skills Core</b>	<b>9</b>																																																																									
ENGL 112 Rhetoric and Research <sup>2</sup> .....	3																																																																									
MATH 111 Finite Mathematics .....	3																																																																									
SPCH 148 Interpersonal Communication .....	3																																																																									
<i>The Reading Intensive requirement may be met by CHEM 106.</i>																																																																										
<i>The Writing and Speaking Intensive requirements may be met by CHEM 215L.</i>																																																																										
<i>The Mathematics Intensive requirement may be met by MATH 111.</i>																																																																										
<b>Liberal Education Core</b>	<b>21</b>																																																																									
CHEM 105 General Chemistry I .....	3																																																																									
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2																																																																									
PFWL 100 Lifetime Fitness/Wellness .....	2																																																																									
PHIL 212 Introduction to Ethics .....	3																																																																									
PHYS 105 General Physics I .....	4																																																																									
PHYS 105L General Physics Laboratory I .....	1																																																																									
POLS 210 Personal Law .....	3																																																																									
PSYC 142 General Psychology .....	3																																																																									
<i>Computer Skills are enhanced by CHEM 215L.</i>																																																																										

<sup>1</sup> It is recommended that students also take CHEM 216/216L Organic Chemistry II because it is required by most dental schools and Organic Chemistry is a prerequisite for most biochemistry courses. Biochemistry is required for admission to most dental schools.

<sup>2</sup> Students not qualifying for ENGL 112 must satisfy the writing requirements by completing either of the following course sequences: ENGL 101 and ENGL 102 English Composition I and II, or (2) ENGL 101 English Composition I, LITR 220 and LITR 221 Introduction to World Literature I and II. If the latter option is chosen, LITR 220 and 221 will satisfy the second writing requirement and the Humanities requirement for the A.S. degree. Students transferring to IU School of Arts and Science and Purdue School of Engineering are encouraged to consider option 2.

<sup>3</sup> Spanish III and IV or Conversational Spanish may be advantageous to anyone applying to Dental School.

**BIOLOGICAL AND PHYSICAL SCIENCES**  
**PRE-ENVIRONMENTAL HEALTH SCIENCE CONCENTRATION 4751**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed to prepare students to transfer into the Environmental Health Science areas of public health. This program is designed to students to make meaningful contributions toward the prevention of illness and the promotion of better planning and administration of community health programs.

	<b>Credit Hours</b>		
<b>Major Program Requirements</b>	<b>32</b>		
CHEM 106 General Chemistry II.....	3	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p style="text-align: center;"><b>Semester I</b></p> <hr/> <p>CHEM 105 .....3            CHEM 105L.....2            ENGL 101 .....3            LFSC 105 .....3            LFSC 105L.....1            MATH 115(M).....3            Total Hours: 15</p> <hr/> <p style="text-align: center;"><b>Semester II</b></p> <hr/> <p>CHEM 106 .....3            CHEM 106L.....2            LFSC 106(R) .....3            LFSC 106L.....1            MATH 116 .....3            PFWL 100 .....2            SPCH 143.....3            Total Hours: 17</p> <hr/> <p style="text-align: center;"><b>Semester III</b></p> <hr/> <p>CHEM 215 .....3            CHEM 215L(W/S) .....2            ENGL 108 .....3            LFSC 111 .....2            LFSC 111L.....1            PHYS 105 .....4            PHYS 105L.....1            Total Hours: 16</p> <hr/> <p style="text-align: center;"><b>Semester IV</b></p> <hr/> <p>ECON 201 .....3            LFSC 112 .....2            LFSC 112L.....1            PHIL 212 .....3            PHYS 106 .....4            PHYS 106L.....1            PSYC 142.....3            Total Hours: 17</p>	
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2		
CHEM 215 Organic Chemistry I .....	3		
CHEM 215L Organic Chemistry Laboratory I .....	2		
LFSC 105 Principles of Life Science I.....	3		
LFSC 105L Principles of Life Science Laboratory I .....	1		
LFSC 106 Principles of Life Science II .....	3		
LFSC 106L Principles of Life Science Laboratory II .....	1		
LFSC 111 Anatomy and Physiology I <sup>1</sup> .....	2		
LFSC 111L Anatomy and Physiology Laboratory I <sup>1</sup> .....	1		
LFSC 112 Anatomy and Physiology II <sup>1</sup> .....	2		
LFSC 112L Anatomy and Physiology Laboratory II <sup>1</sup> .....	1		
MATH 116 Survey of Calculus II .....	3		
PHYS 105 General Physics I .....	4		
PHYS 105L General Physics Laboratory I.....	1		
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b>	<b>9</b>		
ENGL 101 English Composition I .....	3		
MATH 115 Survey of Calculus I .....	3		
SPCH 143 Speech .....	3		
<i>The Reading Intensive requirement may be met by LFSC 106.</i>			
<i>The Writing and Speaking Intensive requirements may be met by CHEM 215L.</i>			
<i>The Mathematics Intensive requirement may be met by MATH 115.</i>			
<b>Liberal Education Core</b>	<b>24</b>		
CHEM 105 General Chemistry I .....	3		
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2		
ECON 201 Microeconomics .....	3		
ENGL 108 Technical Writing .....	3		
PFWL 100 Lifetime Fitness/Wellness .....	2		
PHIL 212 Introduction to Ethics.....	3		
PHYS 106 General Physics II .....	4		
PHYS 106L General Physics Laboratory II .....	1		
PSYC 142 General Psychology .....	3		
<i>Computer Skills are enhanced by CHEM 215L.</i>			
	<b>65</b>		

<sup>1</sup> Students transferring to Indiana State University should take CHEM 216/216L Organic Chemistry II and Laboratory in place of LFSC 111/111L and 112/112L.

**BIOLOGICAL AND PHYSICAL SCIENCES**  
**PRE-FORENSIC SCIENCE CONCENTRATION 4752**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

Forensic scientists play a key role in solving crimes of all descriptions. These scientists are on the front line of law enforcement and must be trained in chemistry and biology as well as methods for valid handling of evidence. They must be prepared to testify in court hearings and trials. The courses required and skills needed are consistent with the medical technology degrees offered at many universities and students are encouraged to complete both majors.

	Credit Hours - A.S. Purdue <sup>1</sup>	A.S. IUPUI <sup>2</sup>	<i>Recommended Sequence of Courses for A.S. (Purdue<sup>1</sup>)</i> (This assumes any necessary develop- mental require- ments have been met.)	<i>Recommended Sequence of Courses for A.S. (IUPUI<sup>2</sup>)</i> (This assumes any necessary develop- mental require- ments have been met.)
<b>Major Program Requirements</b>				
	<b>36</b>	<b>37</b>		
CHEM 106 General Chemistry II.....	3	3		
CHEM 106L General Chemistry/Qualitative Analysis Laboratory.....	2	2		
CHEM 215 Organic Chemistry I.....	3	3		
CHEM 215L Organic Chemistry Laboratory I.....	2	2		
CHEM 216 Organic Chemistry II.....	-	3		
CHEM 216L Organic Chemistry Laboratory II.....	-	2		
LAW 100 Survey of Criminal Justice.....	-	3		
LAW 155 Substantive Criminal Law.....	3	-		
LFSC 106 Principles of Life Science II.....	3	-		
LFSC 106L Principles of Life Science Laboratory II... 1	-	-		
LFSC 111 Anatomy and Physiology I.....	2	-		
LFSC 111L Anatomy and Physiology Laboratory I... 1	-	-		
LFSC 112 Anatomy and Physiology II.....	2	-		
LFSC 112L Anatomy and Physiology Laboratory II... 1	-	-		
LFSC 220 Molecular Biology.....	-	3		
LFSC 220L Laboratory in Molecular Biology.....	-	2		
LFSC 308 Genetics.....	-	4		
MATH 116 Survey of Calculus II.....	3	-		
PHYS 105 General Physics I.....	4	4		
PHYS 105L General Physics Laboratory I.....	1	1		
PHYS 106 General Physics II.....	4	4		
PHYS 106L General Physics Laboratory II.....	1	1		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>		
ENGL 101 English Composition I.....	3	3		
MATH 102 College Algebra.....	-	3		
MATH 115 Survey of Calculus I.....	3	-		
SPCH 143 Speech.....	3	3		
<i>The Reading Intensive requirement may be met by CHEM 106.</i>				
<i>The Writing and Speaking Intensive requirement may be met by CHEM 215L.</i>				
<i>The Mathematics Intensive requirement may be met by MATH 116 or MATH 102.</i>				
			<b>Semester I</b>	<b>Semester I</b>
			CHEM 105.....3	CHEM 105.....3
			CHEM 105L.....2	CHEM 105L.....2
			ENGL 101.....3	ENGL 101.....3
			LFSC 105.....3	LFSC 105.....3
			LFSC 105L.....1	LFSC 105L.....1
			MATH 115.....3	MATH 102(M).....3
			Total Hours: 15	Total Hours: 15
			<b>Semester II</b>	<b>Semester II</b>
			CHEM 106(R).....3	CHEM 106(R).....3
			CHEM 106L.....2	CHEM 106L.....2
			ENGL 102.....3	ENGL 102.....3
			LFSC 106.....3	HIST 132.....3
			LFSC 106L.....1	LFSC 308.....4
			MATH 116(M).....3	SPCH 143.....3
			SPCH 143.....3	Total Hours: 18
			Total Hours: 18	
			<b>Semester III</b>	<b>Semester III</b>
			CHEM 215.....3	CHEM 215.....3
			CHEM 215L(W/S).....2	CHEM 215L(W/S).....2
			LFSC 111.....2	PFWL 100.....2
			LFSC 111L.....1	PHIL 212.....3
			PFWL 100.....2	PHYS 105.....4
			PHYS 105.....4	PHYS 105L.....1
			PHYS 105L.....1	PSYC 142.....3
			PSYC 142.....3	Total Hours: 18
			Total Hours: 18	
			<b>Semester IV</b>	<b>Semester IV</b>
			LAW 155.....3	CHEM 216.....3
			LFSC 112.....2	CHEM 216L.....2
			LFSC 112L.....1	LAW 100.....3
			PHYS 106.....4	LFSC 220.....3
			PHYS 106L.....1	LFSC 220L.....2
			Hum Elec.....3	PHYS 106.....4
			Soc Sci Elec.....3	PHYS 106L.....1
			Total Hours: 17	Total Hours: 18

(Continued on the following page)

<sup>1</sup> Recommended courses for students transferring to Purdue.

<sup>2</sup> Recommended courses for students transferring to IUPUI.

<b><i>Liberal Education Core</i></b>	<b>23</b>	<b>23</b>
CHEM 105 General Chemistry I .....	3	3
CHEM 105L General Chemistry/Quantitative Analysis Laboratory.....	2	2
ENGL 102 English Composition II .....	3	3
HIST 132 Survey of European History II.....	-	3
LFSC 105 Principles of Life Science I.....	3	3
LFSC 105L Principles of Life Science Laboratory I ...	1	1
PFWL 100 Lifetime Fitness/Wellness .....	2	2
PHIL 212 Introduction to Ethics.....	-	3
PSYC 142 General Psychology .....	3	3
Humanities Elective – Common Core List .....	3	-
Social Science Electives – Core List .....	3	-

*Computer Skills are enhanced by CHEM 105L. —* **68 69** —

**BIOLOGICAL AND PHYSICAL SCIENCES**  
**PRE-HEALTH INFORMATION ADMINISTRATION CONCENTRATION 4660**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

Health Information managers are responsible for developing and maintaining manual and computerized health information systems. They are responsible for collecting, storing and releasing health care data. These health information specialists frequently interact with other medical, financial, and administrative personnel. Some of their concerns are medicolegal problems, reimbursement issues, and data security. While many health information managers are employed in hospitals, others work for insurance companies, psychiatric facilities, computer companies, physician group practices, drug companies, and government agencies. This program is primarily designed to transfer to the Indiana University Health Information Administration program at IUPUI. Upon transfer, 60 hours credit will be awarded toward a Bachelor of Science degree in Health Information Administration. Since Health Information Administration programs at other schools may differ from Indiana University's, students planning to transfer to other schools should consult with their advisor on course choices.

Admission to Health Information Administration programs, including IU's, is competitive. A student's completion of the prerequisite courses and meeting the minimum admission requirements does not guarantee admission to the program. Students should refer to each school's current bulletin for specific admission requirements.

	Credit Hours	
<b>Major Program Requirements</b>	<b>35</b>	<p><i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>ENGL 101 .....3            LFSC 111 .....2            LFSC 111L .....1            MATH 102(M) .....3            MGMT 100 .....3            PSYC 142 .....3            Total Hours: 15</p> <hr/> <p><b>Semester II</b></p> <p>CHEM 101 .....3            CHEM 101L .....1            ENGL 205 .....3            LFSC 112 .....2            LFSC 112L .....1            SOCL 151 .....3            SPCH 143/148 .....3            Total Hours: 16</p> <hr/> <p><b>Semester III</b></p> <p>ACCT 201 .....3            COMP 201 .....3            HIMT 110 .....3            LFSC 210(R/W/S) .....2            LFSC 210L .....2            PFWL 100 .....2            Total Hours: 15</p> <hr/> <p><b>Semester IV</b></p> <p>ACCT 202 .....3            BLAW 203 .....3            CSCI 126 .....3            MATH 110 .....3            MGMT 257 .....3            PHIL 212 .....3            Total Hours: 18</p>
ACCT 201 Principles of Accounting I .....	3	
ACCT 202 Principles of Accounting II .....	3	
BLAW 203 Legal Environment of Business .....	3	
CHEM 101 Elementary Organic Chemistry and Biochemistry .....	3	
CHEM 101L Elementary Organic Chemistry and Biochemistry Laboratory .....	1	
COMP 201 The Computer in Business .....	3	
CSCI 126 Introduction to Computer Tools for Scientists and Engineers .....	3	
HIMT 110 Medical Terminology for Allied Health .....	3	
LFSC 112 Anatomy and Physiology II .....	2	
LFSC 112L Anatomy and Physiology Laboratory II .....	1	
LFSC 210 Microbiology .....	2	
LFSC 210L Microbiology Laboratory .....	2	
MGMT 100 Introduction to Business .....	3	
MGMT 257 Supervision .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 102 College Algebra .....	3	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by LFSC 210.</i>		
<i>The Mathematics Intensive requirement may be met by MATH 102.</i>		
<b>Liberal Education Core</b>	<b>20</b>	
ENGL 205 Business Communications .....	3	
LFSC 111 Anatomy and Physiology I .....	2	
LFSC 111L Anatomy and Physiology Laboratory I .....	1	
MATH 110 Statistics .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PHIL 212 Introduction to Ethics .....	3	
PSYC 142 General Psychology .....	3	
SOCL 151 Principles of Sociology .....	3	
<i>Computer Skills are enhanced by COMP 201.</i>		



**BIOLOGICAL AND PHYSICAL SCIENCES**  
**PRE-NUCLEAR MEDICINE TECHNOLOGY CONCENTRATION 4691**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed to prepare students to transfer to a baccalaureate program. Nuclear medicine technologists assist the physician when radioactive materials are used in diagnosis and treatment of disease.

	Credit Hours		
<b>Major Program Requirements</b>	<b>30</b>		
CHEM 106 General Chemistry II .....	3	<p style="text-align: center;"><i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>CHEM 105 .....3            CHEM 105L.....2            ENGL 101 .....3            LFSC 105 .....3            LFSC 105L.....1            SPCH 143.....3            Total Hours: 15</p> <hr/> <p><b>Semester II</b></p> <p>CHEM 106 .....3            CHEM 106L.....2            COMP 110 .....3            LFSC 106 .....3            LFSC 106L.....1            PSYC 142.....3            Total Hours: 15</p> <hr/> <p><b>Semester III</b></p> <p>ENGL 102 .....3            LFSC 211 .....3            LFSC 211L.....1            MATH 102(M) .....3            PFWL 100 .....2            PHYS 105 .....4            PHYS 105L.....1            Total Hours: 17</p> <hr/> <p><b>Semester IV</b></p> <p>LFSC 212(R) .....3            LFSC 212L.....1            MATH 115 .....3            PHIL 212(W/S) .....3            Humanities Elec.....3            Social Science Elec...3            Total Hours: 16</p>	
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2		
COMP 110 Introduction to Computer Concepts .....	3		
LFSC 105 Principles of Life Science I .....	3		
LFSC 105L Principles of Life Science Laboratory I.....	1		
LFSC 106 Principles of Life Science II.....	3		
LFSC 106L Principles of Life Science Laboratory II .....	1		
LFSC 211 Human Systems I: Anatomy and Physiology .....	3		
LFSC 211L Human Systems I: Anatomy and Physiology Laboratory .....	1		
LFSC 212 Human Systems II: Anatomy and Physiology.....	3		
LFSC 212L Human Systems II: Anatomy and Physiology Laboratory .....	1		
MATH 115 Survey of Calculus I.....	3		
PHIL 212 Introduction to Ethics.....	3		
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b>	<b>9</b>		
ENGL 101 English Composition I .....	3		
MATH 102 College Algebra .....	3		
SPCH 143 Speech .....	3		
<i>The Reading Intensive requirement may be met by LFSC 212.</i>			
<i>The Writing and Speaking Intensive requirements may be met by PHIL 212.</i>			
<i>The Mathematics Intensive requirement may be met by MATH 102.</i>			
<b>Liberal Education Core</b>	<b>24</b>		
CHEM 105 General Chemistry I .....	3		
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2		
ENGL 102 English Composition II .....	3		
PFWL 100 Lifetime Fitness/Wellness .....	2		
PHYS 105 General Physics I .....	4		
PHYS 105L General Physics Laboratory I.....	1		
PSYC 142 General Psychology.....	3		
Humanities Elective <sup>1</sup> .....	3		
Social Science Electives – Core List <sup>2</sup> .....	3		
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>			
	<b>63</b>		

<sup>1</sup> Students should select from the following Humanities courses: ARTT 110 Art Appreciation, MUSM 118 Music Appreciation, LITR 220 World Literature I, LITR 222 American Literature I, or PHIL 111 Introduction to Philosophy.

<sup>2</sup> Students should select from the following Social Science courses based on where they plan to transfer: ECON 201 Microeconomics, ECON 202 Macroeconomics, HIST 139/140 American History I/II, HIST 235/236 World Civilization I/II, POLS 111 American National Government, POLS 112 State and Local Government, PSYC 142 General Psychology and SOCL 151 Principles of Sociology.



**BIOLOGICAL AND PHYSICAL SCIENCES  
PRE-OCCUPATIONAL THERAPY CONCENTRATION 4780  
A Two-Year Transfer Program Leading to the A.S. Degree**

This program provides the first two years of general education and supportive courses for application to occupational therapy programs. IUPUI only admits baccalaureate students to its new MS OT program. The University of Southern Indiana in Evansville admits students into its BS/MS in OT<sup>1</sup> program as juniors after two years of prerequisite courses. USI occupational therapy students complete an additional two and one-half years (including three summers) of courses and internships to earn the BS/MS in OT degree. Upon completion of the BS/MS in OT degree and appropriate qualifying examinations, the occupational therapist will be prepared to work with physicians, physical and speech therapists, psychologists, and other specialists to plan therapeutic activity programs. Completion of the A.S. degree in Pre-Occupational Therapy does not guarantee admittance into a BS/MS in OT program.

		Credit Hours
<b>Major Program Requirements</b>		<b>33</b>
COMP 110	Introduction to Computer Concepts .....	3
HIMT 110	Medical Terminology for Allied Health .....	3
HUMN 210	Introduction to Humanities I .....	3
HUMN 211	Introduction to Humanities II .....	3
LFSC 111	Anatomy and Physiology I .....	2
LFSC 111L	Anatomy and Physiology Laboratory I .....	1
LFSC 112	Anatomy and Physiology II .....	2
LFSC 112L	Anatomy and Physiology Laboratory II .....	1
PSYC 249	Abnormal Psychology .....	3
SOCL 151	Principles of Sociology .....	3
History Electives <sup>2</sup>	.....	3
Psychology Elective <sup>3</sup>	.....	3
Directed Elective <sup>4</sup>	.....	3
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>		<b>9</b>
ENGL 101	English Composition I .....	3
MATH 102	College Algebra .....	3
SPCH 143	Speech .....	3
<i>The Reading, Writing and Speaking Intensive requirements may be met by PSYC 249. The Mathematics Intensive requirement may be met by MATH 102.</i>		
<b>Liberal Education Core</b>		<b>21</b>
ARTT 110	Art Appreciation .....	3
ENGL 102	English Composition II .....	3
CHEM 100	Elementary Chemistry -and-	
CHEM 100L	Elementary Chemistry Laboratory .....	4
PFWL 100	Lifetime Fitness/Wellness .....	2
PHIL 212	Introduction to Ethics .....	3
PSYC 142	General Psychology .....	3
PSYC 201	Developmental Psychology .....	3
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>		
		<b>63</b>

<b>Recommended Sequence of Courses</b>	
(This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
CHEM 100/100L .....	4
ENGL 101 .....	3
HIMT 110 .....	3
MATH 102(M) .....	3
PSYC 142 .....	3
Total Hours: 16	
<b>Semester II</b>	
COMP 110 .....	3
ENGL 102 .....	3
PSYC 201 .....	3
SOCL 151 .....	3
SPCH 143 .....	3
Total Hours: 15	
<b>Semester III</b>	
ARTT 110 .....	3
HUMN 210 .....	3
LFSC 111 .....	2
LFSC 111L .....	1
PFWL 100 .....	2
PSYC 249(R/W/S) .....	3
Directed Elec .....	3
Total Hours: 17	
<b>Semester IV</b>	
HUMN 211 .....	3
LFSC 112 .....	2
LFSC 112L .....	1
PHIL 212 .....	3
History Elec .....	3
Psychology Elect .....	3
Total Hours: 15	

<sup>1</sup> USI recommends that the student take OT 151 Orientation to Occupational Therapy on their campus before applying to the BS/MS in OT program.

<sup>2</sup> Students should select HIST 139 American History I, HIST 140 American History II, HIST 235 World Civilization I or HIST 236 World Civilization II.

<sup>3</sup> Students should select one of the following as a Psychology elective: PSYC 251 Fundamentals of Assistive Technology or PSYC 291 Introduction to Exceptionalities.

<sup>4</sup> Students should select one of the following: EARTH 207 World Geography, EARTH 208 Principles of Conservation or POLS 211 Introduction to World Politics.

**BIOLOGICAL AND PHYSICAL SCIENCES – PRE-OPTOMETRY CONCENTRATION 4810**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This program is designed primarily for transfer to Indiana University. Students planning to transfer elsewhere should check specific requirements of those institutions. Students will be admitted to optometry school on a competitive basis and it will take four years to complete optometry school. Students entering this program should have the following high school prerequisites: one and one-half years' algebra, one-year geometry, and one-year chemistry.

	<b>Credit Hours</b>																																																																			
<b>Major Program Requirements</b>	<b>34</b>	<p align="center"><b>Recommended Sequence of Courses</b>                      (This sequence assumes any necessary developmental requirements have been met.)</p> <table border="1"> <tr> <th align="center" colspan="2">Semester I</th> </tr> <tr> <td>CHEM 105 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 105L.....</td> <td align="right">2</td> </tr> <tr> <td>ENGL 112 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105L.....</td> <td align="right">1</td> </tr> <tr> <td>PSYC 142.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> <tr> <th align="center" colspan="2">Semester II</th> </tr> <tr> <td>CHEM 106(R) .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 106L.....</td> <td align="right">2</td> </tr> <tr> <td>MATH 118 (M) or 115(M)/116 .....</td> <td align="right">5-6</td> </tr> <tr> <td>PSYC 201 .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 148.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16-17</td> </tr> <tr> <th align="center" colspan="2">Semester III</th> </tr> <tr> <td>CHEM 215 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 215L(W/S) .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 211 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 211L.....</td> <td align="right">1</td> </tr> <tr> <td>LFSC 230 .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 230L.....</td> <td align="right">2</td> </tr> <tr> <td>PHYS 105 .....</td> <td align="right">4</td> </tr> <tr> <td>PHYS 105L.....</td> <td align="right">1</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <th align="center" colspan="2">Semester IV</th> </tr> <tr> <td>HLTH 211 .....</td> <td align="right">2</td> </tr> <tr> <td>MATH 110 .....</td> <td align="right">3</td> </tr> <tr> <td>PFWL 115 .....</td> <td align="right">1</td> </tr> <tr> <td>PHIL 212 .....</td> <td align="right">3</td> </tr> <tr> <td>PHYS 106 .....</td> <td align="right">4</td> </tr> <tr> <td>PHYS 106L.....</td> <td align="right">1</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 14</td> </tr> </table>	Semester I		CHEM 105 .....	3	CHEM 105L.....	2	ENGL 112 .....	3	LFSC 105 .....	3	LFSC 105L.....	1	PSYC 142.....	3	Total Hours: 15		Semester II		CHEM 106(R) .....	3	CHEM 106L.....	2	MATH 118 (M) or 115(M)/116 .....	5-6	PSYC 201 .....	3	SPCH 148.....	3	Total Hours: 16-17		Semester III		CHEM 215 .....	3	CHEM 215L(W/S) .....	2	LFSC 211 .....	3	LFSC 211L.....	1	LFSC 230 .....	2	LFSC 230L.....	2	PHYS 105 .....	4	PHYS 105L.....	1	Total Hours: 18		Semester IV		HLTH 211 .....	2	MATH 110 .....	3	PFWL 115 .....	1	PHIL 212 .....	3	PHYS 106 .....	4	PHYS 106L.....	1	Total Hours: 14	
Semester I																																																																				
CHEM 105 .....	3																																																																			
CHEM 105L.....	2																																																																			
ENGL 112 .....	3																																																																			
LFSC 105 .....	3																																																																			
LFSC 105L.....	1																																																																			
PSYC 142.....	3																																																																			
Total Hours: 15																																																																				
Semester II																																																																				
CHEM 106(R) .....	3																																																																			
CHEM 106L.....	2																																																																			
MATH 118 (M) or 115(M)/116 .....	5-6																																																																			
PSYC 201 .....	3																																																																			
SPCH 148.....	3																																																																			
Total Hours: 16-17																																																																				
Semester III																																																																				
CHEM 215 .....	3																																																																			
CHEM 215L(W/S) .....	2																																																																			
LFSC 211 .....	3																																																																			
LFSC 211L.....	1																																																																			
LFSC 230 .....	2																																																																			
LFSC 230L.....	2																																																																			
PHYS 105 .....	4																																																																			
PHYS 105L.....	1																																																																			
Total Hours: 18																																																																				
Semester IV																																																																				
HLTH 211 .....	2																																																																			
MATH 110 .....	3																																																																			
PFWL 115 .....	1																																																																			
PHIL 212 .....	3																																																																			
PHYS 106 .....	4																																																																			
PHYS 106L.....	1																																																																			
Total Hours: 14																																																																				
CHEM 106 General Chemistry II .....	3																																																																			
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2																																																																			
CHEM 215 Organic Chemistry I .....	3																																																																			
CHEM 215L Organic Chemistry Laboratory I .....	2																																																																			
HLTH 211 First Aid .....	2																																																																			
LFSC 105 Principles of Life Science I .....	3																																																																			
LFSC 105L Principles of Life Science Laboratory I.....	1																																																																			
LFSC 211 Human Systems I: Anatomy and Physiology .....	3																																																																			
LFSC 211L Human Systems I: Anatomy and Physiology Laboratory I.....	1																																																																			
LFSC 230 General Microbiology .....	2																																																																			
LFSC 230L General Microbiology Laboratory.....	2																																																																			
PHYS 105 General Physics I .....	4																																																																			
PHYS 105L General Physics Laboratory I.....	1																																																																			
PHYS 106 General Physics II .....	4																																																																			
PHYS 106L General Physics Laboratory II.....	1																																																																			
<b>General Education Requirements</b>																																																																				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements</i>																																																																				
<b>Basic Skills Core</b>	<b>11-12</b>																																																																			
ENGL 112 Rhetoric and Research <sup>1</sup> .....	3																																																																			
MATH 118 Calculus with Analytic Geometry I -or-																																																																				
MATH 115 Survey of Calculus I -and-																																																																				
MATH 116 Survey of Calculus II.....	5-6																																																																			
SPCH 148 Interpersonal Communication .....	3																																																																			
<i>The Reading Intensive requirement may be met by CHEM 106.</i>																																																																				
<i>The Writing and Speaking Intensive requirements may be met by CHEM 215L.</i>																																																																				
<i>The Mathematics Intensive requirement may be met by MATH 115 or MATH 118.</i>																																																																				
<b>Liberal Education Core</b>	<b>18</b>																																																																			
CHEM 105 General Chemistry I .....	3																																																																			
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2																																																																			
MATH 110 Statistics .....	3																																																																			
PFWL 115 Concepts in Wellness .....	1																																																																			
PHIL 212 Introduction to Ethics .....	3																																																																			
PSYC 142 General Psychology.....	3																																																																			
PSYC 201 Developmental Psychology .....	3																																																																			
<i>Computer Skills are enhanced by CHEM 215L. _</i>																																																																				

<sup>1</sup> Students not qualifying for ENGL 112 must satisfy the writing requirements by completing either of the following course sequences: (1) ENGL 101 and ENGL 102 English Composition I and II, or (2) ENGL 101 English Composition I, LITR 220 and LITR 221 Introduction to World Literature I and II. If the latter option is chosen, LITR 220 and 221 will satisfy the second writing requirement and the Humanities requirement for the A.S. degree.

**BIOLOGICAL AND PHYSICAL SCIENCES  
PRE-PHARMACY CONCENTRATION 4830  
A Two-Year Transfer Program Leading to the A.S. Degree**

The courses in this concentration have been selected because they are among the courses required for admission to Purdue University Pharmacy School. Students should confirm that these courses are included as part of the admission requirements for the pharmacy school to which they wish to apply.

	Credit Hours	
<b>Major Program Requirements</b>	<b>38</b>	
CHEM 106 General Chemistry II.....	3	<p style="text-align: center;"><i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>CHEM 105 .....3 CHEM 105L.....2 ENGL 112 .....3 LFSC 105 .....3 LFSC 105L .....1 MATH 115(M) .....3 PFWL 100 .....2 Total Hours: 17</p> <hr/> <p><b>Semester II</b></p> <p>CHEM 106 .....3 CHEM 106L.....2 LFSC 106 .....3 LFSC 106L .....1 MATH 116 .....3 PSYC 142 .....3 SPCH 143 .....3 Total Hours: 18</p> <hr/> <p><b>Semester III</b></p> <p>CHEM 215 .....3 CHEM 215L(W/S) .....2 LFSC 211 .....3 LFSC 211L .....1 LFSC 230 .....2 LFSC 230L .....2 Humanities Elec .....3 Total Hours: 16</p> <hr/> <p><b>Semester IV</b></p> <p>CHEM 216 .....3 CHEM 216L.....2 ECON 202 .....3 LFSC 212(R) .....3 LFSC 212L .....1 PHYS 105 .....4 PHYS 105L .....1 Total Hours: 17</p>
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2	
CHEM 215 Organic Chemistry I .....	3	
CHEM 215L Organic Chemistry Laboratory I.....	2	
CHEM 216 Organic Chemistry II .....	3	
CHEM 216L Organic Chemistry Laboratory II.....	2	
LFSC 105 Principles of Life Science I.....	3	
LFSC 105L Principles of Life Science Laboratory I .....	1	
LFSC 106 Principles of Life Science II .....	3	
LFSC 106L Principles of Life Science II Laboratory .....	1	
LFSC 211 Human Systems I: Anatomy and Physiology.....	3	
LFSC 211L Human Systems I: Anatomy and Physiology Laboratory .....	1	
LFSC 212 Human Systems II: Anatomy and Physiology .....	3	
LFSC 212L Human Systems II: Anatomy and Physiology Laboratory .....	1	
LFSC 230 General Microbiology .....	2	
LFSC 230L General Microbiology Laboratory .....	2	
MATH 116 Survey of Calculus II .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 112 Rhetoric and Research <sup>1</sup> .....	3	
MATH 115 Survey of Calculus I .....	3	
SPCH 143 Speech .....	3	
<i>The Reading Intensive requirement may be met by LFSC 212. The Writing and Speaking Intensive requirements may be met by CHEM 215L. The Mathematics Intensive requirement may be met by MATH 115.</i>		
<b>Liberal Education Core</b>	<b>21</b>	
CHEM 105 General Chemistry I .....	3	
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2	
ECON 201 Microeconomics -or-		
ECON 202 Macroeconomics .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PHYS 105 General Physics I <sup>2</sup> .....	4	
PHYS 105L General Physics Laboratory I.....	1	
PSYC 142 General Psychology .....	3	
Humanities Elective - Common Core List .....	3	
<i>Computer Skills are enhanced by CHEM 215L.</i>	<b>68</b>	

<sup>1</sup>Students not qualifying for ENGL 112 must satisfy the writing requirements by completing either of the following course sequences: (1) ENGL 101 and ENGL 102 English Composition I and II, or (2) ENGL 101 English Composition I, LITR 220 and LITR 221 Introduction to World Literature I and II. If the latter option is chosen, LITR 220 and 221 will satisfy the second writing requirement and the Humanities requirement for the A.S. degree.

<sup>2</sup> Students planning to transfer to Purdue University in Pharmaceutical Science should also take PHYS 106 and PHYS 106L.

**BIOLOGICAL AND PHYSICAL SCIENCES  
PRE-PHYSICAL THERAPY CONCENTRATION 4062  
A Two-Year Transfer Program Leading to the A.S. Degree**

This is a transfer program that provides the first two years of general education and supportive courses for application to the Physical Therapy program at IUPUI or the University of Evansville<sup>1</sup>. Both of these programs are Master of Physical Therapy (MPT) programs. IUPUI's MPT program requires a bachelor's degree for application. The University of Evansville's MPT program accepts students after two years of college work and progresses directly to the masters' degree. Both programs are very competitive; completion of the prerequisite courses does not guarantee admission to either program. Students should consult with their advisor regarding application deadlines or for information on physical therapy programs at other campuses. Upon completion of a Physical Therapy program and appropriate qualifying examinations, physical therapists are prepared to work with physicians and other health care professionals to evaluate, plan, and implement treatment programs to prevent or reduce physical disability and pain.

	<b>Credit Hours</b>	<b>Recommended Sequence of Courses</b>
<b>Major Program Requirements</b>	<b>34</b>	(This sequence assumes any necessary developmental requirements have been met.)
CHEM 106 General Chemistry II -or- Elective <sup>2</sup> .....	3	
CHEM 106L General Chemistry/Qualitative Analysis Laboratory -or- Elective <sup>2</sup> .....	2	
LFSC 105 Principles of Life Science I -or- Elective <sup>3</sup> .....	3	
LFSC 105L Principles of Life Science Laboratory I -or- Elective <sup>3</sup> .....	1	
LFSC 106 Principles of Life Science II -or- Elective <sup>3</sup> .....	3	
LFSC 106L Principles of Life Science Laboratory II -or- Elective <sup>3</sup> .....	1	
LFSC 211 Human Systems I: Anatomy and Physiology.....	3	
LFSC 211L Human Systems I: Anatomy and Physiology Laboratory .....	1	
LFSC 212 Human Systems II: Anatomy and Physiology .....	3	
LFSC 212L Human Systems II: Anatomy and Physiology Laboratory .....	1	
PHYS 105 General Physics I .....	4	
PHYS 105L General Physics Laboratory I.....	1	
PHYS 106 General Physics II .....	4	
PHYS 106L General Physics Laboratory II .....	1	
Directed Elective <sup>4</sup> .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 102 College Algebra (or higher mathematics) <sup>5</sup> .....	3	
SPCH 143 Speech .....	3	
		<b>Semester I</b>
		ENGL 101 .....3
		LFSC 105 .....3
		LFSC 105L..... 1
		MATH 102(M) .....3
		PSYC 142/Soc Elec ... 3
		SPCH 143 ..... 3
		Total Hours: 16
		<b>Semester II</b>
		CHEM 105 .....3
		CHEM 105L..... 2
		ENGL 102 .....3
		LFSC 106(R) .....3
		LFSC 106L..... 1
		Math/Directed Elec... 3
		Total Hours: 15

(Continued on the following page)

<sup>1</sup> Although there is some room in the MPT program for electives, it is recommended that applicants attempt to complete all of University of Evansville's general education requirements before entry into the professional program. This could be accomplished by adding 6 hours of foreign language and two 3-credit directed electives (see footnote 4) to the course of study outlined above. In addition, a "Fitness/Wellness" course would need to be taken after transfer to University of Evansville.

<sup>2</sup> Students transferring to IUPUI should substitute electives for CHEM 106/106L.

<sup>3</sup> Students transferring to IUPUI should substitute electives for LFSC 105/105L and 106/106L.

<sup>4</sup> Electives acceptable for transfer to University of Evansville include the following:

ARTT 110 Art Appreciation	MUSM 118 Music Appreciation
ERTH 207 World Geography	POLS 201 Introduction to Political Science
HIST 235/236 World Civilization I/II	SOCL 154 Introduction to Archeology
LITR 220 Introduction to World Literature I	SPCH 100 Theatre Appreciation

<sup>5</sup> Students transferring to University of Evansville should take MATH 115 Survey of Calculus I and six hours of directed electives; see footnote 4. Students transferring to IUPUI should select one of the following mathematics course sequences:

MATH 102 College Algebra, MATH 104 Trigonometry and MATH 110 Statistics  
MATH 111 Finite Mathematics, MATH 115 Survey of Calculus I and MGMT 265 Business Statistics

*The Reading Intensive requirement may be met by LFSC 106.*  
*The Writing Intensive requirement may be met by CHEM 106L.*  
*The Speaking Intensive requirement may be met by LFSC 211.*  
*The Mathematics Intensive requirement may be met by MATH 102.*

**Liberal Education Core**

	<b>22</b>
CHEM 105 General Chemistry I .....	3
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2
ENGL 102 English Composition II .....	3
PFWL 100 Lifetime Fitness/Wellness .....	2
PHIL 111 Introduction to Philosophy -or-	
PHIL 212 Introduction to Ethics <sup>1</sup> .....	3
PSYC 142 General Psychology -or-	
Sociology Elective – Core List .....	3
Psychology or Sociology Elective – Core List <sup>2</sup> .....	3
Mathematics Elective – Broad Core List <sup>3</sup> -or-	
Directed Science or Humanities Elective – Broad Core List <sup>4</sup> .....	3

*The Computer Skills requirement is met by Computers Across the Curriculum. \_\_\_*

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Semester III	
CHEM 106 .....	3
CHEM 106L(W) .....	2
LFSC 211(S) .....	3
LFSC 211L .....	1
PFWL 100 .....	2
PHIL 111/212 .....	3
PHYS 105 .....	4
PHYS 105L .....	1
Total Hours:	19
Semester IV	
LFSC 212 .....	3
LFSC 212L .....	1
PHYS 106 .....	4
PHYS 106L .....	1
Directed Elective .....	3
Psych/Soc Elec .....	3
Total Hours:	15

**NOTE:** IUPUI requires that 17 credits in prerequisite science and mathematics courses be completed by January 1 of the application year. The University of Evansville requires that 24 semester hours in the science prerequisites, including one semester of physics, be completed by the time of application. Consult your advisor for additional application requirements.

<sup>1</sup> Students transferring to University of Evansville must take PHIL 111.

<sup>2</sup> Students transferring to IUPUI should substitute two three-hour courses from Sociology or PSYC 142/Psychology Elective sequence. (The psychology elective may be any 200-level psychology course that has PSYC 142 as a prerequisite.) Students transferring to University of Evansville must take PSYC 142 and SOCL 151 Introduction to Sociology.

<sup>3</sup> See footnote 5 on previous page.

<sup>4</sup> See footnote 4 on previous page.

**BIOLOGICAL AND PHYSICAL SCIENCES**  
**PRE-PHYSICIAN ASSISTANT CONCENTRATION 4063**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

Physician Assistants (PAs) practice medicine with supervision from licensed physicians. PA practice is centered on direct patient care and may include education, research, and administrative activities. The tasks PAs perform depend on their practice setting but may include performing physical examinations and taking patient histories, ordering and interpreting diagnostic tests, performing therapeutic procedures, developing patient care plans, acting as assistants during surgeries, and providing emergency medical services. Acceptance into a Physician Assistant program is competitive. Completion of the Pre-Physician Assistant program does not guarantee acceptance into a PA program. Physician Assistant programs vary widely in the prerequisite courses they require for admission. Since this Pre-PA program is intended to meet Butler University's requirements, students should consult their advisor about the specific academic requirements and deadlines for PA programs at other institutions.

	<b>Credit Hours</b>
<b>Major Program Requirements</b>	<b>42</b>
CHEM 106 General Chemistry II.....	3
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2
CHEM 215 Organic Chemistry I .....	3
CHEM 215L Organic Chemistry Laboratory I .....	2
LFSC 105 Principles of Life Science I.....	3
LFSC 105L Principles of Life Science Laboratory I .....	1
LFSC 106 Principles of Life Science II .....	3
LFSC 106L Principles of Life Science Laboratory II .....	1
LFSC 211 Human Systems I: Anatomy and Physiology.....	3
LFSC 211L Human Systems I: Anatomy and Physiology Laboratory .....	1
LFSC 212 Human Systems II: Anatomy and Physiology .....	3
LFSC 212L Human Systems II: Anatomy and Physiology Laboratory .....	1
LFSC 230 General Microbiology .....	2
LFSC 230L General Microbiology Laboratory .....	2
MATH 110 Statistics .....	3
PHYS 100 Physics for Health-Related Professions .....	3
Directed Humanities Electives <sup>1</sup> .....	6

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 112 Rhetoric and Research <sup>2</sup> .....	3
MATH 102 College Algebra .....	3
SPCH 143 Speech .....	3

*The Reading Intensive requirement may be met by LFSC 106.*

*The Writing Intensive requirement may be met by CHEM 106L or CHEM 215L.*

*The Speaking Intensive requirement may be met by CHEM 215L.*

*The Mathematics Intensive requirement may be met by MATH 102.*

<b>Recommended Sequence of Courses</b>	
(This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
CHEM 105 .....	3
CHEM 105L.....	2
ENGL 112 .....	3
LFSC 105 .....	3
LFSC 105L.....	1
MATH 102 .....	3
SPCH 143.....	3
Total Hours: 18	
<b>Semester II</b>	
CHEM 106 .....	3
CHEM 106L(W) .....	2
LFSC 106(R) .....	3
LFSC 106L.....	1
MATH 110(M) .....	3
PFWL 100 .....	2
PHYS 100 .....	3
Total Hours: 17	
<b>Semester III</b>	
CHEM 215 .....	3
CHEM 215L(W/S) .....	2
HIST 235 .....	3
LFSC 230 .....	2
LFSC 230L.....	2
LFSC 211 .....	3
LFSC 211L.....	1
Total Hours: 16	

*(Continued on the following page)*

<sup>1</sup> Choose one course from ARTT 110 Art Appreciation, MUSM 118 Music Appreciation or SPCH 100 Theatre Appreciation and one course from LITR 224 or 225 Survey of English Literature I or II.

<sup>2</sup> Students not qualifying for ENGL 112 must satisfy the writing requirement by completing ENGL 101 and ENGL 102 English Composition I and II.

<b><i>Liberal Education Core</i></b>	<b>16</b>
CHEM 105 General Chemistry I .....	3
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2
HIST 235 World Civilization I .....	3
PFWL 100 Lifetime Fitness/Wellness .....	2
PSYC 142 General Psychology .....	3
Directed Humanities Elective – Common Core List <sup>1</sup> .....	3

*Computer Skills are enhanced by CHEM 215L.* —  
**67**

Semester IV	
LFSC 212 .....	3
LFSC 212L .....	1
PSYC 142 .....	3
Dir Hum Elec .....	9
Total Hours: 16	

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<sup>1</sup> Choose one course: HUMN 210 Introduction to Humanities I, HUMN 211 Introduction to Humanities II, or PHIL 111 Introduction to Philosophy.

**BOWLING INDUSTRY MANAGEMENT AND TECHNOLOGY 3250**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

Graduates are prepared for entry-level positions within the bowling industry in center management, sales, marketing, and technical fields.

	Credit Hours - A.A.S.	A.S.				
<b>Major Program Requirements</b>			<b>41</b>	<b>38</b>		
ACCT 100 Basic College Accounting .....	3	3	<b>Recommended Sequence of Courses for A.A.S.</b> (This assumes any necessary developmental requirements have been met.)	<b>Recommended Sequence of Courses for A.S.</b> (This assumes any necessary developmental requirements have been met.)		
BOWL 101 Lane and Pinsetter Maintenance I .....	3	3				
BOWL 106 Lane and Pinsetter Laboratory I .....	3	3				
BOWL 151 Lane and Pinsetter Maintenance II .....	3	3				
BOWL 156 Lane and Pinsetter Laboratory II .....	3	3				
BOWL 205 Pro Shop Operations and Instruction .....	2	2				
BOWL 210 Bowling Lanes Management I .....	3	3				
BOWL 215 Management and Pro Shop Laboratory I ..	2	2				
BOWL 220 Lineage Development .....	3	3				
BOWL 270 Bowling Lanes Management II .....	3	3				
BOWL 275 Management and Pro Shop Laboratory II ..	2	2				
COMP 110 Introduction to Computer Concepts .....	3	3				
HLTH 211 First Aid .....	2	2				
HOTL 210 Hotel Conventions and Marketing .....	3	3				
MGMT 100 Introduction to Business .....	3	-				
<b>General Education Requirements</b>						
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>						
<b>Basic Skills Core</b>			<b>9</b>	<b>9</b>		
ENGL 101 English Composition I .....	3	3	<b>Semester I</b> BOWL 101 .....3 BOWL 106 .....3 ENGL 101 .....3 MGMT 100 .....3 PFWL 100 .....2 PSYC 142 .....3 Total Hours: 17	<b>Semester I</b> ACCT 100 .....3 BOWL 101 .....3 BOWL 106 .....3 ENGL 101 .....3 PFWL 100 .....2 PSYC 142 .....3 Total Hours: 17		
MATH 101 Intermediate Algebra .....	-	3				
MATT 109 Business Mathematics .....	3	-				
SPCH 143 Speech .....	3	3				
<i>The Reading Intensive and Writing Intensive requirements may be met by BOWL 220.</i>						
<i>The Speaking Intensive requirement may be met by BOWL 210.</i>						
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>						
<b>Liberal Education Core</b>			<b>14</b>	<b>20</b>		
ECON 208 Personal Financial Management .....	3	3	<b>Semester II</b> BOWL 151 .....3 BOWL 156 .....3 COMP 110 .....3 HOTL 210 .....3 SPCH 143 .....3 Total Hours: 15	<b>Semester II</b> BOWL 151 .....3 BOWL 156 .....3 COMP 110 .....3 HLTH 211 .....2 HOTL 210 .....3 SPCH 143 .....3 Total Hours: 17		
ENGL 107 Business English .....	3	3				
MATH 102 College Algebra -or- Humanities Elective – Broad Core List .....	-	3				
PFWL 100 Lifetime Fitness/Wellness .....	2	2				
PSYC 142 General Psychology .....	3	3				
Laboratory Science Elective – Common Core List .....	-	3				
Science Elective – Common Core List .....	3	-				
Humanities Elective – Common Core List .....	-	3				
<i>Computer Skills are enhanced by COMP 110.</i>						
					<b>64</b>	<b>67</b>
			<b>Semester III</b> BOWL 205 .....2 BOWL 210(S) .....3 BOWL 215 .....2 ENGL 107 .....3 HLTH 211 .....2 MATT 109 .....3 Total Hours: 15	<b>Semester III</b> BOWL 205 .....2 BOWL 210(S) .....3 BOWL 215 .....2 ENGL 107 .....3 MATH 101 .....3 Humanities Elec.....3 Total Hours: 16		
<b>Liberal Education Core</b>						
ECON 208 Personal Financial Management .....	3	3				
ENGL 107 Business English .....	3	3				
MATH 102 College Algebra -or- Humanities Elective – Broad Core List .....	-	3				
PFWL 100 Lifetime Fitness/Wellness .....	2	2				
PSYC 142 General Psychology .....	3	3				
Laboratory Science Elective – Common Core List .....	-	3				
Science Elective – Common Core List .....	3	-				
Humanities Elective – Common Core List .....	-	3				
			<b>Semester IV</b> ACCT 100 .....3 BOWL 220(R/W) .....3 BOWL 270 .....3 BOWL 275 .....2 ECON 208 .....3 Science Elec .....3 Total Hours: 17	<b>Semester IV</b> BOWL 220(R/W) .....3 BOWL 270 .....3 BOWL 275 .....2 ECON 208 .....3 MATH 102/ Humanities Elec.....3 Lab Science Elec.....3 Total Hours: 17		
<b>Liberal Education Core</b>						
ECON 208 Personal Financial Management .....	3	3				
ENGL 107 Business English .....	3	3				



**BROADCAST PRODUCTION AND SALES 2110**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

Specific skills needed for effective performance in the broadcasting industry are taught. Radio and television broadcasting fundamentals of production, copywriting, programming, sales, and management are explored with practical experience in the University-owned and operated radio and television stations under actual on-air conditions. The primary objective is effective performance in the broadcasting industry.

		Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>		
<b>Major Program Requirements</b>		<b>45-49</b>	<b>45 -49</b>				
BCST 100	Introduction to Mass Communications .....	3	3	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)		
BCST 110	Broadcast Performance .....	3	3				
BCST 120	Beginning Radio Production .....	3	3				
BCST 140	Beginning Television Production .....	3	3				
BCST 150	Broadcast Sales I.....	3	3				
BCST 161	Advanced Radio Production .....	3	3				
BCST 180	Advanced Television Production .....	3	3				
BCST 210	Broadcast Promotion.....	3	3				
BCST 221	Broadcast Programming .....	3	3				
BCST 235	Newsroom Operations.....	3	3				
BCST 240	Broadcast Management.....	3	3				
BCST 250	Broadcast Sales II .....	3	3				
BCST 260	Video Editing and Post-Production .....	3	3				
BCST 270	Electronic News Gathering/Electronic Field Production.....	3	3				
BCST 280	Television Program Producing and Directing .....	3	3				
BCST 285	Internship in Broadcasting <sup>1</sup> .....	0-4	0-4				
<b>General Education Requirements</b>							
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>							
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>				
ENGL 101	English Composition I .....	3	3	<b>Semester I</b>	<b>Semester I</b>		
MATH 101	Intermediate Algebra -or-						
MATH 102	College Algebra .....	-	3				
	100-level or Higher Mathematics Course .....	3	-				
SPCH 143	Speech -or-						
SPCH 148	Interpersonal Communication .....	3	3				
<i>The Reading Intensive requirement may be met by BCST 240. The Writing Intensive requirement may be met by BCST 235. The Speaking Intensive requirement may be met by BCST 280. The Mathematics Intensive requirement may be met by MATH 102 or a subsequent mathematics course or by passing a mathematics assessment examination.</i>							
<b>Liberal Education Core</b>		<b>14</b>	<b>20</b>				
ENGL 109	Broadcast Writing .....	3	3	<b>Semester II</b>	<b>Semester II</b>		
PFWL 100	Lifetime Fitness/Wellness .....	2	2				
	Laboratory Science Elective—Common Core List .....	-	3				
	Science Elective-Common Core List.....	3	-				
	Humanities Elective-Common Core List .....	-	3				
	Social Science Elective(s)-Core List .....	3	6				
	Humanities or Science/Mathematics Elective- Broad Core List .....	-	3				
				<b>Semester III</b>	<b>Semester III</b>		
				<b>Semester III</b>	<b>Semester III</b>		
BCST 221	.....	3	3				
BCST 235(W)	.....	3	3				
BCST 240(R)	.....	3	3				
PFWL 100	.....	2	2				
Science Elec	.....	3	3				
Soc Sci Elective	.....	3	3				
Total Hours: 17						17	20
				<b>Semester IV</b>	<b>Semester IV</b>		
				<b>Semester IV</b>	<b>Semester IV</b>		
BCST 210	.....	3	3				
BCST 250	.....	3	3				
BCST 260	.....	3	3				
BCST 270	.....	3	3				
BCST 280(S)	.....	3	3				
	Hum/Sci/Math Elective.....		3				
	Soc Sci Elective	3	3				
Total Hours: 18				18	18		

*(Continued on the following page)*

<sup>1</sup> See course description for details.

One course from the following areas: Humanities,  
 Mathematics or Science – Broad Core List –or-  
 Social Science - Core List ..... 3 -

Computer Skills are enhanced by BCST 235, 260 and  
 280.

68-72    74-78

**NOTE:** Student may register for 200-level Broadcasting courses only if all 100-level Broadcasting courses have been completed, or are in the process of completion, or by departmental approval. A grade of C or better must be maintained in all courses in the major area or the course(s) must be repeated.

**BUILDING MAINTENANCE 8230**  
**A One-Year Program Leading to a Certificate of Program Completion**

This program is designed to prepare students for apartment and condominium maintenance. Students are trained in carpentry, concrete, masonry, blueprint reading, electrical wiring, plumbing, HVAC and small engines.

	<b>Credit Hours</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
ARCH 102 Architectural Drafting and Print Reading .....	3	
CNST 105 Framing .....	2	
CNST 105L Framing Laboratory .....	2	
CNST 120 Construction Safety .....	2	
CNST 155 Electrical Wiring .....	2	
CNST 155L Electrical Wiring Laboratory .....	1	
CNST 160 Finish Carpentry .....	2	
CNST 160L Finish Carpentry Laboratory .....	2	
CNST 180 Concrete and Masonry .....	2	
CNST 180L Concrete and Masonry Laboratory .....	2	
CNST 210 Mechanical Systems .....	2	
ENGL 101 English Composition I .....	3	
MATT 105 Applied Mathematics I .....	4	
	<u>29</u>	
		<b>Semester I</b>
		ARCH 102 .....3
		CNST 105 ..... 2
		CNST 105L ..... 2
		CNST 180 ..... 2
		CNST 180L ..... 2
		ENGL 101 ..... 3
		Total Hours: 14
		<b>Semester II</b>
		CNST 120 ..... 2
		CNST 155 ..... 2
		CNST 155L ..... 1
		CNST 160 ..... 2
		CNST 160L ..... 2
		CNST 210 ..... 2
		MATT 105 ..... 4
		Total Hours: 15

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**NOTE:** All students must satisfy the University’s minimal requirements through either placement tests or enrollment in READ 011.

**BUSINESS ADMINISTRATION 5050**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This program is designed primarily for the purpose of preparing students to transfer to four-year schools of business. The curriculum includes a mixture of general education and business courses aimed at providing a foundation for further study and a career in business. Students interested in specializing during their junior and senior years in accounting, finance, marketing, human resource management, management information systems, etc. should enroll in this program. Individuals who hope to eventually enter such career fields as public relations, law, hospital administration, etc. might also want to consider this program.

<b>Major Program Requirements</b>	<b>Credit Hours</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
	<b>35-36</b>	
ACCT 201 Principles of Accounting I .....	3	
ACCT 202 Principles of Accounting II .....	3	
BLAW 203 Legal Environment of Business .....	3	
COMP 201 The Computer in Business .....	3	
ECON 201 Microeconomics .....	3	
ECON 202 Macroeconomics .....	3	
MGMT 100 Introduction to Business.....	3	
MGMT 265 Business Statistics .....	3	
Social Science Elective <sup>1</sup> .....	3	
Directed Elective .....	3	
Electives <sup>2</sup> .....	5-6	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra -or-		
MATH 111 Finite Mathematics <sup>3</sup> .....	3	
SPCH 143 Speech .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by BLAW 203. The Mathematics Intensive requirement may be met by MATH 115 or a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>	<b>20-21</b>	
Directed English Elective <sup>4</sup> .....	3	
MATH 115 Survey of Calculus I -or-		
Science Elective – Broad Core List .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PSYC 142 General Psychology .....	3	
SOCL 151 Principles of Sociology -or-		
Sociology Elective –Core List .....	3	
Laboratory Science Elective – Common Core List .....	3-4	
Humanities Elective – Common Core List <sup>5</sup> .....	3	
<i>Computer Skills are enhanced by COMP 201. _</i>		
	<b>64-66</b>	
		<b>Semester I</b>
		ENGL 101 .....3
		MGMT 100 .....3
		SOCL 151/Sociology Elective..... 3
		MATH 101/Elective... 3
		Lab Science Elec. 3-4
		Total Hours: 15-16
		<b>Semester II</b>
		MATH 111/Elective... 3
		PFWL 100 .....2
		PSYC 142 .....3
		SPCH 143 .....3
		Dir English Elec..... 3
		Elective..... 2-3
		Total Hours: 16-17
		<b>Semester III</b>
		ACCT 201 .....3
		COMP 201 .....3
		ECON 201 .....3
		MATH 115/Science Elective..... 3
		Humanities Elec ..... 3
		Total Hours: 15
		<b>Semester IV</b>
		ACCT 202 .....3
		BLAW 203(R/W/S) ... 3
		ECON 202 .....3
		MGMT 265 .....3
		Directed Elective..... 3
		Social Science Elec... 3
		Total Hours: 18

<sup>1</sup> Suggested social science electives include HIST 139 American History I, HIST 140 American History II, POLS 111 American National Government, and POLS 201 Introduction to Political Science. Students planning to transfer to Indiana University should enroll in either HIST 139 or HIST 140.

<sup>2</sup> Students may wish to use this elective to satisfy algebra prerequisite for MATH 111. See course descriptions for MATH 101 and MATH 102.

<sup>3</sup> Students planning to transfer to Indiana State University, may select MATH 101; all others should complete MATH 111.

<sup>4</sup> Examples of a second course in English would be ENGL 102 English Composition II, ENGL 205 Business Communications, and ENGL 210 Advanced Expository Writing. Selection of English electives depends upon the English requirement of the baccalaureate institution to which the student is transferring.

<sup>5</sup> Strongly recommended humanities elective(s): PHIL 111 Introduction to Philosophy, PHIL 212 Introduction to Ethics (especially for students transferring to University of Southern Indiana), or PHIL 213 Logic.

**BUSINESS MANAGEMENT 5360**  
**A Two-Year Program Leading to the A.A.S. Degree**

This program prepares students for a variety of entry-level positions in the field of office administration, sales, retailing, materials distribution, finance and small business operations. In addition, most of the courses are designed to assist the employed persons in upgrading their skills. The curriculum includes several basic subject areas such as accounting, economics, management, labor relations, marketing and computer skills. The development of managerial skills useful in a variety of job situations is emphasized.

	Credit Hours	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
<b>Major Program Requirements<sup>1</sup></b>	<b>42</b>	
ACCT 201 Principles of Accounting -or-		
ACCT 100 Basic College Accounting .....	3	
BLAW 203 Legal Environment of Business .....	3	
COMP 110 Introduction to Computer Concepts .....	3	
CWEB 213 Web-Based Electronic Commerce .....	3	
ENTR 121 Creating a Small Business .....	3	
MGMT 100 Introduction to Business.....	3	
MGMT 250 Introduction to Management.....	3	
MGMT 255 Principles of Salesmanship .....	3	
MGMT 257 Supervision .....	3	
MGMT 275 Introduction to Business Finance.....	3	
MGMT 280 Introduction to Marketing .....	3	
MGMT 293 Integrated Business Project .....	3	
MKTG 155 Consumer Behavior .....	3	
Business Elective <sup>2</sup> .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATT 109 Business Mathematics -or-		
MATH 101 Intermediate Algebra .....	3	
SPCH 143 Speech .....	3	
<i>The Reading Intensive requirement may be met by BLAW 203 or ECON 201 or MGMT 250.</i>		
<i>The Writing Intensive requirement may be met by BLAW 203 or MGMT 250.</i>		
<i>The Speaking Intensive requirement may be met by BLAW 203.</i>		
<i>The Mathematics Intensive requirements may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>	<b>14-15</b>	
ECON 201 Microeconomics -or-		
Economics Elective.....	3	
ENGL 205 Business Communications .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PSYC 142 General Psychology -or-		
PSYC 141 Applied Psychology .....	3	
Laboratory Science Elective – Common Core List .....	3-4	
<i>Computer Skills are enhanced by COMP 110 or CWEB 213.</i>		
		<b>Semester I</b>
		ENGL 101 .....3
		MATT 109/ MATH 101 .....3
		MGMT 100 .....3
		MKTG 155 .....3
		SPCH 143.....3
		Total Hours: 15
		<b>Semester II</b>
		ACCT 201/100 .....3
		COMP 110 .....3
		ENGL 205 .....3
		MGMT 250(R/W) ..... 3
		MGMT 255 .....3
		PFWL 100 .....2
		Total Hours: 17
		<b>Semester III</b>
		CWEB 213 .....3
		MGMT 275 .....3
		MGMT 257 .....3
		PSYC 142/141..... 3
		Lab Science Elec..... 3-4
		Total Hours: 15-16
		<b>Semester IV</b>
		BLAW 203(RWS) .....3
		ECON 201(R)/ Economics Elec.....3
		ENTR 121 .....3
		MGMT 280 .....3
		MGMT 293 .....3
		Business Elective.....3
		Total Hours: 18
		<b>Total Cr Hrs..... 65-66</b>

(Continued on the following page)

<sup>1</sup> Some courses listed as Major Program Requirements will be replaced by courses listed in a concentration.

<sup>2</sup> Suggested electives: BINT 205/206 Business Internship I/II, ENTR 280 Small Business Problems and Concerns, MGMT 284 Operations Management, and OADM 266 Professional Business Image. The Finance concentration must include ACCT 202 Principles of Accounting II as an elective.

**Courses in Concentrations:**

**Entrepreneurship Concentration 5361** **6**  
 ENTR 280 Small Business Problems and Concerns ..... 3  
 MGMT 284 Operations Management ..... 3

**Finance Concentration 5362 (Jasper Only)** **15**  
 FINC 205 Money and Banking ..... 3  
 FINC 220 Credit and Collections ..... 3  
 FINC 230 Real Estate Finance ..... 3  
 FINC 245 Introduction to Investments..... 3  
 INSR 210 Principles of Insurance ..... 3

**Marketing Management Concentration 5363** **12**  
 MKTG 200 Retailing ..... 3  
 MKTG 250 Sales Management ..... 3  
 MKTG 260 Advertising and Promotion ..... 3

**Supply Chain and Logistics Concentration 5364** **15**  
 PRDM 100 Supply Chain Logistics Management ..... 3  
 PRDM 214 Materials Management ..... 3  
 PRDM 215 Quality Management ..... 3  
 PRDM 220 Warehousing and Procurement ..... 3  
 PRDM 272 Transportation ..... 3

**Recommended Sequence of Courses for Concentration Areas follow: (Each sequence assumes any necessary developmental requirements have been met.)**

ENTREPRENEURSHIP 5361	FINANCE 5362 (Jasper Only)	MARKETING MANAGEMENT 5363	SUPPLY CHAIN AND LOGISTICS 5364
<b>Semester I</b>	<b>Semester I</b>	<b>Semester I</b>	<b>Semester I</b>
ENGL 101 .....3	ENGL 101 .....3	ENGL 101 .....3	ENGL 101 .....3
ENTR 121 .....3	FINC 205 .....3	MATT 109/	MATT 109/
MATT 109/ MATH 101 .....3	MATT 109/ MATH 101 .....3	MATH 101 .....3	MATH 101 .....3
MGMT 100 .....3	MGMT 100.....3	MGMT 100 .....3	MGMT 100 .....3
SPCH 143 .....3	SPCH 143 .....3	MKTG 155 .....3	PRDM 100 .....3
Total Hours: 15	Total Hours: 15	SPCH 143 ..... 3	SPCH 143 ..... 3
		Total Hours: 15	Total Hours: 15
<b>Semester II</b>	<b>Semester II</b>	<b>Semester II</b>	<b>Semester II</b>
ACCT 201/100 .....3	ACCT 201/100 .....3	ACCT 201/100 .....3	ACCT 201/100 .....3
COMP 110.....3	COMP 110 .....3	COMP 110 .....3	COMP 110 .....3
ENGL 205 .....3	ENGL 205 .....3	ENGL 205 .....3	ENGL 205 .....3
ENTR 280 .....3	FINC 220 .....3	MGMT 250(R/W) ..... 3	MGMT 250(R/W) .....3
MGMT 250(R/W) .....3	MGMT 250(R/W) .....3	MKTG 200 .....3	PFWL 100 .....2
PFWL 100 ..... 2	PFWL 100 ..... 2	PFWL 100..... 2	PRDM 214 ..... 3
Total Hours: 17	Total Hours: 17	Total Hours: 17	Total Hours: 17
<b>Semester III</b>	<b>Semester III</b>	<b>Semester III</b>	<b>Semester III</b>
CWEB 213 .....3	CWEB 213 .....3	CWEB 213 .....3	CWEB 213 .....3
MGMT 255 .....3	FINC 230 .....3	MGMT 275 .....3	MGMT 275 .....3
MGMT 257 .....3	INSR 210 .....3	MKTG 260 .....3	PRDM 215 .....3
MGMT 275 .....3	MGMT 275.....3	PSYC 142/141 ..... 3	PRDM 272 .....3
PSYC 142/141 .....3	PSYC 142/141 .....3	Lab Science Elec. 3-4	PSYC 142/141 ..... 3
Lab Science Elec. 3-4	Lab Science Elec. 3-4	Total Hours: 15-16	Lab Science Elec. 3-4
Total Hours: 18-19	Total Hours: 18-19		Total Hours: 18-19
<b>Semester IV</b>	<b>Semester IV</b>	<b>Semester IV</b>	<b>Semester IV</b>
BLAW 203(RWS) .....3	BLAW 203(RWS) .....3	BLAW 203(RWS) ..... 3	BLAW 203(RWS) ..... 3
ECON 201(R)/ Economics Elec..... 3	ECON 201(R)/ Economics Elec ..... 3	ECON 201(R)/ Economics Elec ..... 3	ECON 201(R)/ Economics Elec..... 3
MGMT 280 .....3	FINC 245 .....3	MGMT 280 .....3	MGMT 280 .....3
MGMT 284 .....3	MGMT 280.....3	MGMT 293 .....3	MGMT 293 .....3
MGMT 293 .....3	MGMT 293.....3	MKTG 250 .....3	PRDM 220 .....3
Business Elective ..... 3	Business Elective..... 3	Business Elective ..... 3	Business Elective ..... 3
Total Hours: 18	Total Hours: 18	Total Hours: 18	Total Hours: 18
<b>Total Cr Hrs..... 68-69</b>	<b>Total Cr Hrs..... 68-69</b>	<b>Total Cr Hrs..... 65-66</b>	<b>Total Cr Hrs..... 68-69</b>

**CLERICAL – GENERAL 5606**  
**A Certificate of Program Completion**

This program is designed to provide the initial skills or upgrade skills of persons who desire initial employment in entry-level clerical positions. In addition to the development of keyboarding skills, this program will provide exposure to computer software and applications as well as general office protocol.

<b>Credit Hours</b>	
3	ACCT 100 Basic College Accounting .....
1	COMP 111 Using the Internet .....
	OADM 150 Keyboarding II -and/or-
3-5	OADM 210 Advanced Communication Tools <sup>1</sup> .....
3	OADM 155 Records Management .....
3	OADM 161 Word Processing .....
2	OADM 215 Machine Transcription .....
3	OADM 232 Presentation Software .....
3	OADM 233 Spreadsheets .....
3	OADM 234 Databases .....
3	OADM 266 Professional Business Image.....
<b>27-29</b>	

**Recommended  
Sequence of Courses**

(This sequence assumes any necessary developmental requirements have been met.)

---

**Semester I**

ACCT 100 .....3  
OADM 150  
or 210 .....2-3  
OADM 161 .....3  
OADM 232 .....3  
OADM 233 .....3  
Total Hours: 14-15

---

**Semester II**

COMP 111 .....1  
OADM 210 ..... 0-3  
OADM 155 .....3  
OADM 215 .....2  
OADM 234 .....3  
OADM 266 .....3  
Total Hours: 12-15

**NOTE 1:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in ENGL 009 or 011, READ 009 and 011, and MATH 011, MATT 103, 105 or 109.

**NOTE 2:** The courses in this certificate are also required in the Administrative Office Technology A.A.S. Degree. Students interested in obtaining a two-year degree, please see the Administrative Office Technology Degree.

<sup>1</sup> The student's previous coursework and current skill level will determine the number of keyboarding courses required. The minimum skill level required is the equivalent of successfully completing OADM 210.

**CLERK – MEDICAL 5610**  
**A Certificate of Program Completion**

This program is designed to provide the initial skills or upgrade skills of persons who desire initial employment in entry-level clerical positions in a medical facility. In addition to the development of keyboarding skills, this program will provide exposure to computer software and applications as well as information specific to the medical field.

	<b>Credit Hours</b>	
OADM 210 Advanced Communication Tools <sup>1</sup> .....	3	<p style="text-align: center;"><b><i>Recommended Sequence of Courses</i></b>                      (This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester I</b></p> <p>OADM 210 ..... 3                      OADM 161 ..... 3                      OADM 170 ..... 3                      OADM 230 ..... 3                      OADM 215 ..... <u>2</u>                      Total Hours: 14</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester II</b></p> <p>OADM 155 ..... 3                      OADM 219 ..... 2                      OADM 231 ..... 3                      OADM 233 ..... 3                      OADM 234 ..... <u>3</u>                      Total Hours: 14</p>
OADM 155 Records Management .....	3	
OADM 161 Word Processing .....	3	
OADM 170 Medical Terminology .....	3	
OADM 215 Machine Transcription .....	2	
OADM 219 Medical Transcription .....	2	
OADM 230 Medical Insurance Billing .....	3	
OADM 231 Advanced Medical Insurance Billing .....	3	
OADM 233 Spreadsheets .....	3	
OADM 234 Databases .....	3	
	<b>28</b>	

**NOTE 1:** All students must satisfy the University’s minimal requirements through either placement tests or enrollment in ENGL 009 or 011, READ 009 and 011, and MATH 011, MATT 103, 105 or 109.

**NOTE 2:** The courses in this certificate are also required in the Administrative Office Technology A.A.S. Degree. Students interested in obtaining a two-year degree, please see the Administrative Office Technology Degree.

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<sup>1</sup> The minimum skill level required in OADM 210 is 45 wpm. The student may need to enroll in OADM 150 Keyboarding II to attain the minimum speed for OADM 210.

**COLLISION REPAIR AND REFINISHING 8050**  
**A One-Year Certificate of Program Completion**

Graduates are prepared for entry level employment in the body repair industry.

	<b>Credit Hours</b>
AUTO 105 Transportation Fundamentals.....	2
BODY 100 Body Repair I.....	5
BODY 100L Body Repair Laboratory I.....	3
BODY 150 Body Repair II.....	5
BODY 150L Body Repair Laboratory II.....	3
DRAF 120 Computers for Technology.....	2
ENGL 101 English Composition I.....	3
MATT 105 Applied Mathematics I.....	4
Directed Elective <sup>1</sup> .....	2
—	<b>29</b>

<i>Recommended Sequence of Courses</i>	
(This sequence assumes any necessary developmental requirements have been met.)	
Semester I	
AUTO 105 .....	2
BODY 100 .....	5
BODY 100L .....	3
ENGL 101 .....	3
Directed Elective.....	2
Total Hours: 15	
Semester II	
BODY 150 .....	5
BODY 150L .....	3
DRAF 120 .....	2
MATT 105 .....	4
Total Hours: 14	

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011.

<sup>1</sup> Students should select one of the following:

- |  |                                   |
|--|-----------------------------------|
| DRAF 101 Introduction to Drafting                    | MTTD 205 Welding and Fabrication  |
| DRAF 140 Introduction to CAD                         | WELD 160 General Welding          |
| MTTD 105 Metallurgy and Industrial Blueprint Reading | WELD 165 Advanced General Welding |



**COLLISION REPAIR AND REFINISHING 8070**  
**A Two-Year Program Leading to the A.A.S. Degree**

This curriculum prepares students for positions in body shops, collision repair facilities. Training activities include panel replacement and repair, frame and unibody straightening, refinishing and estimating.

	<b>Credit Hours</b>																																																											
<b>Major Program Requirements</b>	<b>48-49</b>																																																											
AUTO 105 Transportation Fundamentals.....	2	<table border="1"> <tr> <td align="center" colspan="2"><b>Recommended Sequence of Courses</b></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>AUTO 105 .....</td> <td align="right">2</td> </tr> <tr> <td>BODY 100 .....</td> <td align="right">5</td> </tr> <tr> <td>BODY 100L .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>Directed Elective .....</td> <td align="right">2-3</td> </tr> <tr> <td>Math Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18-19</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>AUTO 115.....</td> <td align="right">4</td> </tr> <tr> <td>AUTO 115L .....</td> <td align="right">4</td> </tr> <tr> <td>BODY 150 .....</td> <td align="right">5</td> </tr> <tr> <td>BODY 150L .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 143.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 19</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>BODY 200/200L .....</td> <td align="right">9</td> </tr> <tr> <td>DRAF 120 .....</td> <td align="right">2</td> </tr> <tr> <td>PFWL 100 or PFWL 115/ HLTH 211 .....</td> <td align="right">2-3</td> </tr> <tr> <td>Science Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16-17</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>BODY 250(R/W/S) .....</td> <td align="right">5</td> </tr> <tr> <td>BODY 250L(R/W/S) .....</td> <td align="right">4</td> </tr> <tr> <td>Hum/Math/Sci/Soc Sci/Writing Elec .....</td> <td align="right">6</td> </tr> <tr> <td>Social Sci Elec .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> </table>	<b>Recommended Sequence of Courses</b>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		AUTO 105 .....	2	BODY 100 .....	5	BODY 100L .....	3	ENGL 101 .....	3	Directed Elective .....	2-3	Math Elective .....	3	Total Hours: 18-19		<b>Semester II</b>		AUTO 115.....	4	AUTO 115L .....	4	BODY 150 .....	5	BODY 150L .....	3	SPCH 143.....	3	Total Hours: 19		<b>Semester III</b>		BODY 200/200L .....	9	DRAF 120 .....	2	PFWL 100 or PFWL 115/ HLTH 211 .....	2-3	Science Elective .....	3	Total Hours: 16-17		<b>Semester IV</b>		BODY 250(R/W/S) .....	5	BODY 250L(R/W/S) .....	4	Hum/Math/Sci/Soc Sci/Writing Elec .....	6	Social Sci Elec .....	3	Total Hours: 18	
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AUTO 115L .....	4																																																											
BODY 150 .....	5																																																											
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BODY 100L Body Repair Laboratory I.....	3																																																											
BODY 150 Body Repair II .....	5																																																											
BODY 150L Body Repair Laboratory II.....	3																																																											
BODY 200 Body Repair III .....	5																																																											
BODY 200L Body Repair Laboratory III .....	4																																																											
BODY 250 Body Repair IV -and-																																																												
BODY 250L Body Repair Laboratory IV .....	9																																																											
DRAF 120 Computers for Technology .....	2																																																											
Directed Elective <sup>1</sup> .....	2-3																																																											
<b>General Education Requirements</b>																																																												
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>																																																												
<b>Basic Skills Core</b>	<b>9</b>																																																											
ENGL 101 English Composition I .....	3																																																											
100-level or Higher Mathematics Course .....	3																																																											
SPCH 143 Speech .....	3																																																											
<i>The Reading, Writing and Speaking Intensive requirements may be met by BODY 250 and BODY 250L.</i>																																																												
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>																																																												
<b>Liberal Education Core</b>	<b>14-15</b>																																																											
PFWL 100 Lifetime Fitness/Wellness -or-																																																												
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Science Elective – Common Core List.....	3																																																											
Social Science Elective – Core List .....	3																																																											
One course from two of the following areas:																																																												
Humanities, Mathematics or Science – Broad Core List -or-																																																												
Social Science or Writing – Core List .....	6																																																											
<i>Computer Skills are enhanced by DRAF 120.</i>																																																												

71-73

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

<sup>1</sup> Students should select one of the following:

- |  |                                   |
|--|-----------------------------------|
| DRAF 101 Introduction to Drafting                    | MTD 205 Welding and Fabrication   |
| DRAF 140 Introduction to CAD                         | WELD 160 General Welding          |
| MTTD 105 Metallurgy and Industrial Blueprint Reading | WELD 165 Advanced General Welding |

**COMMERCIAL PILOT 8170**  
**A One-Year Certificate of Program Completion**

This program is designed to enable students who have completed an associate degree in Aviation Maintenance to obtain their Commercial Pilot Certificate and Instrument Rating with an additional year of coursework.

	<b>Credit Hours</b>
AFLT 100 Primary Ground School .....	5
AFLT 105 Primary Flight .....	3
AFLT 110 Primary Flight Maneuvers .....	2
AFLT 181 Commercial Ground School.....	3
AFLT 186 Commercial Flight I .....	3
AFLT 210 Instrument Radios and Systems .....	2
AFLT 216 Commercial Flight II .....	4
AFLT 221 Instrument Ground School .....	3
MATH 101 Intermediate Algebra .....	3
	<b>28</b>

<i>Recommended Sequence of Courses</i>	
(This sequence assumes any necessary developmental requirements have been met.)	
Semester I	
AFLT 100 .....	5
AFLT 105 .....	3
AFLT 110 .....	2
AFLT 210 .....	2
MATH 101 .....	3
Total Hours: 15	
Summer	
AFLT 216 .....	4
Semester II	
AFLT 181 .....	3
AFLT 186 .....	3
AFLT 221 .....	3
Total Hours: 9	

**COMPUTER INTEGRATED MANUFACTURING (ROBOTICS) TECHNOLOGY 8480**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum prepares graduates for employment in different industries as maintenance technicians, engineering technicians, industrial programmers, field service engineers, sales engineers, and many other high tech employment opportunities in automated manufacturing. Graduates are prepared to install, operate, program, interface, service, troubleshoot, and implement computers, automated equipment, and robotic systems for various applications. Graduates are well prepared in electronics, industrial networking, industrial computers, robotic systems, computer software and hardware applications, industrial control circuits, programmable logic controllers (PLCs), hydraulics and pneumatics. Students also receive specialized courses in automated manufacturing systems such as Automated Process Control that prepares graduates to work in food, chemical, and pharmaceutical industries. Starting salaries and job opportunities are great for the graduates who enter the exciting career of robotics and computer automated manufacturing. *Students intending to complete the Purdue University Industrial Technology B.S. Degree through the VU partnership program are encouraged to consult with their advisor regarding specific course requirements not listed in this catalog.*

	Credit Hours - A.A.S.	A.S.		
<b>Major Program Requirements</b>	<b>52</b>	<b>52</b>	<b>Recommended Sequence of Courses for A.A.S.</b>	<b>Recommended Sequence of Courses for A.S.</b>
CIMT 100 Electronics for Automation I.....	3	3	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
CIMT 100L Electronics for Automation Laboratory I..	3	3		
CIMT 125 Introduction to Robotics and Automation..	2	2		
CIMT 125L Introduction to Robotics and Automation Laboratory.....	2	2		
CIMT 140 Mechanical Drives .....	2	2		
CIMT 140L Mechanical Drives Laboratory.....	1	1		
CIMT 150 Electronic and Electrical Applications for Manufacturing. ....	2	2		
CIMT 150L Electronic and Electrical Applications for Manufacturing Laboratory .....	3	3		
CIMT 160 Hydraulics and Pneumatics.....	1	1		
CIMT 160L Hydraulics and Pneumatics Laboratory ....	2	2		
CIMT 175 Electro-Mechanical Controls .....	2	2		
CIMT 175L Electro-Mechanical Controls Laboratory..	2	2		
CIMT 200 Programmable Logic Controllers (PLCs) .	3	3		
CIMT 200L Programmable Logic Controllers (PLCs) Laboratory.....	3	3		
CIMT 204 Troubleshooting Automated Systems .....	1	1		
CIMT 204L Troubleshooting Automated Systems Laboratory.....	1	1		
CIMT 206 Motors and Motor Controls .....	1	1		
CIMT 206L Motors and Motor Controls Laboratory ....	1	1		
CIMT 225 Programming Industrial Robots .....	2	2		
CIMT 225L Programming Industrial Robots Laboratory.....	2	2		
CIMT 250 Robotics Applications and Servicing .....	2	2		
CIMT 250L Robotics Applications and Servicing Laboratory.....	2	2		
CIMT 265 Industrial Networking and PC Control Systems .....	1	1		
CIMT 265L Industrial Networking and PC Control Systems Laboratory.....	2	2		
CIMT 290 Instrumentation and Automated Process Control .....	3	3		
CIMT 290L Instrumentation and Automated Process Control Laboratory.....	3	3		
			<b>Semester I</b>	<b>Semester I</b>
			CIMT 100 .....3	CIMT 100 .....3
			CIMT 100L .....3	CIMT 100L .....3
			CIMT 125 .....2	CIMT 125 .....2
			CIMT 125L .....2	CIMT 125L .....2
			CIMT 140 .....2	CIMT 140 .....2
			CIMT 140L .....1	CIMT 140L .....1
			MATH 101/MATT 107.....3	MATH 102(M) .....3
			SPCH 143/148.....3	SPCH 143/148 .....3
			Total Hours: 19	Total Hours: 19
			<b>Semester II</b>	<b>Semester II</b>
			CIMT 150 .....2	CIMT 150 .....2
			CIMT 150L .....3	CIMT 150L .....3
			CIMT 160 .....1	CIMT 160 .....1
			CIMT 160L .....2	CIMT 160L .....2
			CIMT 175 .....2	CIMT 175 .....2
			CIMT 175L .....2	CIMT 175L .....2
			ENGL 101 .....3	ENGL 101/112.....3
			Science Elective ....3	MATH 104.....3
			Total Hours: 18	Total Hours: 18
			<b>Semester III</b>	<b>Semester III</b>
			CIMT 200(R/W) ....3	CIMT 200(R/W) .....3
			CIMT 200L(R/W) ...3	CIMT 200L(R/W) ...3
			CIMT 204 .....1	CIMT 204 .....1
			CIMT 204L .....1	CIMT 204L .....1
			CIMT 206 .....1	CIMT 206 .....1
			CIMT 206L .....1	CIMT 206L .....1
			CIMT 225 .....2	CIMT 225 .....2
			CIMT 225L .....2	CIMT 225L .....2
			PFWL 100 or PFWL 115/	Humanities Elec.....3
			HLTH 211 .....2-3	Soc Sci Elective .....3
			Soc Sci Elec.....3	Writing Elective. 0-3
			Total Hours: 19-20	Total Hours: 20-23

*(Continued on the following page)*

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>
ENGL 101 English Composition I -or-		
ENGL 112 Rhetoric and Research <sup>1</sup>	3	3
MATH 101 Intermediate Algebra -or-		
MATT 107 Applied Mathematics III	3	-
MATH 102 College Algebra	-	3
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communications	3	3

Semester IV	Semester IV
CIMT 250(S) .....2	CIMT 250(S) .....2
CIMT 250L..... 2	CIMT 250L.....2
CIMT 265 .....1	CIMT 265 .....1
CIMT 265L..... 2	CIMT 265L.....2
CIMT 290 .....3	CIMT 290 .....3
CIMT 290L..... 3	CIMT 290L.....3
Hum/Math/Sci/Soc	PFWL 100 or
Sci/Writing Elec...6	PFWL 115/
Total Hours: 19	HLTH 211 ..... 2-3
	Lab Science Elec .....3
	Soc Sci Elec .....3
	Total Hours: 21-22

*The Reading and Writing Intensive requirements may be met by CIMT 200 and CIMT 200L.  
The Speaking Intensive requirement may be met by CIMT 250.  
The Mathematics Intensive requirement may be met by MATH 102 for A.S. or by a subsequent mathematics course for A.A.S. or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>	<b>14-15</b>	<b>17-21</b>
MATH 104 Trigonometry	-	3
PFWL 100 Lifetime Fitness/Wellness -or-		
PFWL 115 Concepts in Wellness -and-		
HLTH 211 First Aid	2-3	2-3
Humanities Elective – Common Core List	-	3
Laboratory Science Elective – Common Core List	-	3
Science Elective – Common Core List	3	-
Social Science Electives – Core List	3	6
Writing Skills Course (ENGL 102, 107, 108, 109, 205 or 210)	-	0-3
One course from two of the following areas: Humanities, Mathematics or Science – Broad Core List -or- Social Science or Writing – Core List	6	-

*Computer Skills are enhanced by CIMT 125. 75-76 78-82*

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

<sup>1</sup> Students seeking an A.S. degree who do not qualify for ENGL 112 must satisfy the writing requirements by completing either of the following course sequences: (1) ENGL 101 and 102 English Composition I and II, or (2) ENGL 101 English Composition I, LITR 220 and 221 Introduction to World Literature I and II. If the latter option is chosen, LITR 220 and 221 will satisfy the second writing requirement and the Humanities Common Core requirement.

**COMPUTER INTEGRATED MANUFACTURING TECHNOLOGY 8220**  
**A One-Year Certificate of Program Completion**

This program is designed for individuals with a minimum of an A.A.S. in Electronics Technology from an approved institution who wish to prepare for careers in industrial manufacturing. The certificate will prepare graduates for a career in industrial maintenance, field service engineering, process control, or in automation engineering. Job opportunities are excellent. A.S. graduates of the Electronics Technology Program at VU may earn a second A.S. degree in CIM with this certificate and completion of CIMT 125/125L, 204/204L, 250/250L and 265/265L.

	<b>Credit Hours</b>	
CIMT 140 Mechanical Drives .....	2	<p align="center"><i><b>Recommended Sequence of Courses</b></i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p align="center"><b>Semester I</b></p> <hr/> <p>CIMT 140 .....2            CIMT 140L ..... 1            CIMT 200 .....3            CIMT 200L ..... 3            CIMT 206 .....1            CIMT 206L ..... 1            CIMT 225 ..... 2            CIMT 225L ..... 2            Total Hours: 15</p> <hr/> <p align="center"><b>Semester II</b></p> <hr/> <p>CIMT 160 .....1            CIMT 160L ..... 2            CIMT 175 .....2            CIMT 175L ..... 2            CIMT 290 .....3            CIMT 290L ..... 3            Total Hours: 13</p>
CIMT 140L Mechanical Drives Laboratory .....	1	
CIMT 160 Hydraulics and Pneumatics .....	1	
CIMT 160L Hydraulics and Pneumatics Laboratory .....	2	
CIMT 175 Electro-Mechanical Controls .....	2	
CIMT 175L Electro-Mechanical Controls Laboratory .....	2	
CIMT 200 Programmable Logic Controllers (PLCs) .....	3	
CIMT 200L Programmable Logic Controllers (PLCs) Laboratory .....	3	
CIMT 206 Motors and Motor Control .....	1	
CIMT 206L Motors and Motor Control Laboratory .....	1	
CIMT 225 Programming Industrial Robots .....	2	
CIMT 225L Programming Industrial Robots Laboratory .....	2	
CIMT 290 Instrumentation and Automated Process Control .....	3	
CIMT 290L Instrumentation and Automated Process Control Laboratory .....	3	
	<hr/>	
	<b>28</b>	

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**COMPUTER INTEGRATED MANUFACTURING TECHNOLOGY  
INDUSTRIAL MAINTENANCE CONCENTRATION 8481  
A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This program prepares graduates for employment in industrial maintenance by providing a variety of experience in electrical controls, electronics, robotics, industrial computers, programmable logic controllers, hydraulics and pneumatics along with basic machining and welding skills. Graduates are prepared to install, fabricate, troubleshoot, repair and replace mechanical parts, electrical and electronic controls, and programmable controls for industrial machines and automated equipment. *Students intending to complete the Purdue University Industrial Technology B.S. Degree through the VU partnership program are encouraged to consult with their advisor regarding specific course requirements not listed in this catalog.*

		Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>		<b>48</b>	<b>48</b>		
CIMT 100	Electronics for Automation I .....	3	3	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
CIMT 100L	Electronics for Automation Laboratory I .....	3	3		
CIMT 125	Introduction to Robotics and Automation .....	2	2		
CIMT 125L	Introduction to Robotics and Automation Laboratory.....	2	2		
CIMT 140	Mechanical Drives .....	2	2		
CIMT 140L	Mechanical Drives Laboratory.....	1	1		
CIMT 150	Electronic and Electrical Applications for Manufacturing .....	2	2		
CIMT 150L	Electronic and Electrical Applications for Manufacturing Laboratory .....	3	3		
CIMT 160	Hydraulics and Pneumatics .....	1	1		
CIMT 160L	Hydraulics and Pneumatics Laboratory .....	2	2		
CIMT 175	Electro-Mechanical Controls .....	2	2		
CIMT 175L	Electro-Mechanical Controls Laboratory .....	2	2		
CIMT 200	Programmable Logic Controllers (PLCs) .....	3	3		
CIMT 200L	Programmable Logic Controllers (PLCs) Laboratory.....	3	3		
CIMT 204	Troubleshooting Automated Systems .....	1	1		
CIMT 204L	Troubleshooting Automated Systems Laboratory.....	1	1		
CIMT 206	Motors and Motor Control .....	1	1		
CIMT 206L	Motors and Motor Control Laboratory .....	1	1		
CIMT 250	Robotics Applications and Servicing .....	2	2		
CIMT 250L	Robotics Applications and Servicing Laboratory .....	2	2		
MTTD 105	Metallurgy and Industrial Blueprint Reading .....	2	2		
MTTD 135	Manufacturing Processes .....	2	2		
MTTD 135L	Manufacturing Processes Laboratory.....	1	1		
WELD 160	General Welding.....	2	2		
WELD 165	Advanced Welding .....	2	2		
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>					
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>		
ENGL 101	English Composition I -or-				
ENGL 112	Rhetoric and Research <sup>1</sup> .....	3	3		
MATH 102	College Algebra .....	-	3		
MATH 101	Intermediate Algebra -or-				
MATT 107	Applied Mathematics III .....	3	-		
SPCH 143	Speech -or-				
SPCH 148	Interpersonal Communication.....	3	3		
				<b>Semester I</b>	<b>Semester I</b>
				CIMT 100 .....3	CIMT 100 .....3
				CIMT 100L .....3	CIMT 100L .....3
				CIMT 125 .....2	CIMT 125 .....2
				CIMT 125L .....2	CIMT 125L .....2
				CIMT 140 .....2	CIMT 140 .....2
				CIMT 140L .....1	CIMT 140L .....1
				MATH 101/MATT 107.....3	MATH 102.....3
				SPCH 143/148.....3	SPCH 143/148.....3
				Total Hours: 19	Total Hours: 19
				<b>Semester II</b>	<b>Semester II</b>
				CIMT 150 .....2	CIMT 150 .....2
				CIMT 150L .....3	CIMT 150L .....3
				CIMT 160 .....1	CIMT 160 .....1
				CIMT 160L .....2	CIMT 160L .....2
				CIMT 175 .....2	CIMT 175 .....2
				CIMT 175L .....2	CIMT 175L .....2
				ENGL 101 .....3	ENGL 101 .....3
				Hum/Sci/Soc Sci/ Writing Elective ..3	MATH 104 (M) .....3
				Total Hours: 18	MTTD 135 .....2
					MTTD 135L .....1
					Total Hours: 21
				<b>Semester III</b>	<b>Semester III</b>
				CIMT 200(R/W) .....3	CIMT 200(R/W) .....3
				CIMT 200L(R/W) .....3	CIMT 200L(R/W) .....3
				CIMT 204 .....1	CIMT 204 .....1
				CIMT 204L .....1	CIMT 204L .....1
				CIMT 206 .....1	CIMT 206 .....1
				CIMT 206L .....1	CIMT 206L .....1
				WELD 160 .....2	WELD 160 .....2
				Hum/Sci/Soc Sci/ Writing Elective ..3	Humanities Elec.....3
				Total Hours: 15	Lab Science Elec...3
					Total Hours: 18

*(Continued on the following page)*

<sup>1</sup> Students seeking an A.S. degree who do not qualify for ENGL 112 must satisfy the writing requirements by completing either of the following course sequences: (1) ENGL 101 and 102 English Composition I and II, or (2) ENGL 101 English Composition I, LITR 220 and 221 Introduction to World Literature I and II. If the latter option is chosen, LITR 220 and 221 will satisfy the second writing requirement and the Humanities Common Core requirement.

The Reading and Writing Intensive requirements may be met by CIMA 200 and CIMA 200L.  
 The Speaking Intensive requirement may be met by CIMA 250.  
 The Mathematics Intensive requirement may be met by MATH 107 for A.A.S. or by MATH 104 for A.S. or by passing a mathematics assessment examination.

<b>Liberal Education Core</b>	<b>14-15</b>	<b>17-21</b>
MATH 104 Trigonometry .....	-	3
PFWL 100 Lifetime Fitness/Wellness -or-		
PFWL 115 Concepts in Wellness -and-		
HLTH 211 First Aid .....	2-3	2-3
Humanities Elective – Common Core List .....	-	3
Laboratory Science Elective – Common Core List .....	-	3
Science Elective – Common Core List .....	3	-
Social Science Elective(s) – Core List .....	3	6
Writing Skills Course (ENGL 102, 107, 108, 109, 205, or 210) .....	-	0-3
One course from two of the following areas: Humanities, Mathematics or Science – Broad Core List -or- Social Science or Writing – Core List .....	6	-
Computer Skills are enhanced by CIMA 125. ___		
	<b>71-72</b>	<b>74-78</b>

Semester IV	Semester IV
CIMA 250(S) .....2	CIMA 250(S) .....2
CIMA 250L..... 2	CIMA 250L..... 2
MTTD 105 .....2	MTTD 105 .....2
MTTD 135 .....2	PFWL 100 or
MTTD 135L ..... 1	PFWL 115/
PFWL 100 or	HLTH 211 ..... 2-3
PFWL 115/	WELD 165.....2
HLTH 211 ..... 2-3	Soc Sci Electives ... 6
WELD 165 .....2	Writing Elec..... 0-3
Science Elective .....3	Total Hours: 16-20
Soc Sci Elec..... 3	
Total Hours: 19-20	

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

### COMPUTER MAINTENANCE TECHNICIAN CERTIFICATE 8364 A One-Year Certificate of Program Completion

This curriculum prepares graduates for employment in the desktop computer maintenance field. Students gain installation and repair experience with computer systems, networks, video displays, multimedia hardware, laser and impact printers, CD-ROMs and preparation for A+ certification. Graduates may find entry-level employment as computer repair technicians, factory field representatives, component level technicians, technical computer assistants, or in computer sales. This intensive one-year program is for individuals with a minimum of an A. A.S. degree in Electronics Technology, Computer Programming, or related computer degree or by the approval of an Electronics Department advisor.

	Credit Hours
CMET 240 Computer Maintenance I .....	6
CMET 275 Computer Maintenance II .....	6
CPNS 150 Computer Telecommunications .....	2
DRAF 120 Computers for Technology .....	2
ELEC 100 Basic Electricity and Electronics .....	5
ELEC 130 Digital Logic I .....	3
ELEC 230 Computer Electronics .....	4
	<b>28</b>

<i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)
<b>Semester I</b>
CMET 240 .....6
DRAF 120 .....2
ELEC 100 .....5
ELEC 130 .....3
Total Hours: 16
<b>Semester II</b>
CMET 275 .....6
CPNS 150 .....2
ELEC 230 .....4
Total Hours: 12

**COMPUTER NETWORKING LAN TECHNOLOGY CERTIFICATE 8251**  
**A One-Year Certificate of Program Completion**

This curriculum prepares graduates for employment in the computer networking field. Students will install and manage computer networks. Networking courses also help to prepare students for A+ and MCSE certification tests. Graduates may find entry-level employment as network installers, network service technicians, and LAN managers. Extensive reading, studying, and certification test preparation are required for student success. This intensive one-year program is for individuals with a minimum of an A.A.S. degree in Electronics Technology, Computer Programming, or related computer degree.

	<b>Credit Hour</b>																									
CMET 240 Computer Maintenance I .....	6	<table border="1"> <tr> <th align="center" colspan="2"><i>Recommended Sequence of Courses</i></th> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <th align="center" colspan="2">Semester I</th> </tr> <tr> <td>CMET 240 .....</td> <td align="right">6</td> </tr> <tr> <td>CPNS 170 .....</td> <td align="right">4</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 10</td> </tr> <tr> <th align="center" colspan="2">Semester II</th> </tr> <tr> <td>CMET 275 .....</td> <td align="right">6</td> </tr> <tr> <td>CPNS 240 .....</td> <td align="right">4</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 10</td> </tr> <tr> <th align="center" colspan="2">Semester III</th> </tr> <tr> <td>CPNS 280 .....</td> <td align="right">4</td> </tr> </table>	<i>Recommended Sequence of Courses</i>		(This sequence assumes any necessary developmental requirements have been met.)		Semester I		CMET 240 .....	6	CPNS 170 .....	4	Total Hours: 10		Semester II		CMET 275 .....	6	CPNS 240 .....	4	Total Hours: 10		Semester III		CPNS 280 .....	4
<i>Recommended Sequence of Courses</i>																										
(This sequence assumes any necessary developmental requirements have been met.)																										
Semester I																										
CMET 240 .....	6																									
CPNS 170 .....	4																									
Total Hours: 10																										
Semester II																										
CMET 275 .....	6																									
CPNS 240 .....	4																									
Total Hours: 10																										
Semester III																										
CPNS 280 .....	4																									
CMET 275 Computer Maintenance II .....	6																									
CPNS 170 Computer Networking I .....	4																									
CPNS 240 Computer Networking II .....	4																									
CPNS 280 Computer Networking III .....	4																									
	<hr/>																									
	<b>24</b>																									

**COMPUTER NETWORKING WAN TECHNOLOGY CERTIFICATE 8253**  
**A One-Year Certificate of Program Completion**

This curriculum prepares graduates for employment in the computer WAN (Wide Area Networking) field. Students will install, program, and manage computer WAN equipment. Graduates may find entry-level employment as WAN network installers, network service technicians, and WAN managers. Technical courses also help to prepare students for A+ and CCNA certification tests. Extensive reading, studying, and certification test preparation are required for student success. This intensive one-year program is for individuals with a minimum of an A.A.S. degree in Electronics Technology, Computer Programming, or related Computer degree or by the approval of the Electronics Department Advisor.

	<b>Credit Hours</b>																											
CMET 240 Computer Maintenance I .....	6	<table border="1"> <tr> <th align="center" colspan="2"><i>Recommended Sequence of Courses</i></th> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <th align="center" colspan="2">Semester I</th> </tr> <tr> <td>CMET 240 .....</td> <td align="right">6</td> </tr> <tr> <td>CPNS 101 .....</td> <td align="right">3</td> </tr> <tr> <td>CPNS 102 .....</td> <td align="right">3</td> </tr> <tr> <td>ELEC 100 .....</td> <td align="right">5</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <th align="center" colspan="2">Semester II</th> </tr> <tr> <td>CMET 275 .....</td> <td align="right">6</td> </tr> <tr> <td>CPNS 103 .....</td> <td align="right">3</td> </tr> <tr> <td>CPNS 104 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 12</td> </tr> </table>	<i>Recommended Sequence of Courses</i>		(This sequence assumes any necessary developmental requirements have been met.)		Semester I		CMET 240 .....	6	CPNS 101 .....	3	CPNS 102 .....	3	ELEC 100 .....	5	Total Hours: 17		Semester II		CMET 275 .....	6	CPNS 103 .....	3	CPNS 104 .....	3	Total Hours: 12	
<i>Recommended Sequence of Courses</i>																												
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Semester I																												
CMET 240 .....	6																											
CPNS 101 .....	3																											
CPNS 102 .....	3																											
ELEC 100 .....	5																											
Total Hours: 17																												
Semester II																												
CMET 275 .....	6																											
CPNS 103 .....	3																											
CPNS 104 .....	3																											
Total Hours: 12																												
CMET 275 Computer Maintenance II .....	6																											
CPNS 101 LAN Basics and OSI Model .....	3																											
CPNS 102 WAN Basics and Router .....	3																											
CPNS 103 VLANs and Network Management .....	3																											
CPNS 104 WAN Design and Protocols .....	3																											
ELEC 100 Basic Electricity and Electronics .....	5																											
	<hr/>																											
	<b>29</b>																											



**COMPUTER PROGRAMMING – DATABASE CERTIFICATE 5455**  
**A One-Year Certificate of Program Completion**

Students who complete this sequence of courses will be qualified to enter careers in which they would function as entry-level database developers. Three relational database software packages will be presented: Microsoft Access, Visual dBASE, and Oracle. Programming classes enhance the longstanding interface between computer languages and database development.

	<b>Credit Hours</b>
COMP 107 Web Page Design .....	3
COMP 176 Introduction to Visual Programming.....	3
COMP 193 Oracle Fundamentals/SQL*Plus .....	3
COMP 203 Visual C++ .....	3
COMP 215 Database Management/SQL.....	3
COMP 252 Introduction to Java Programming.....	3
COMP 285 Content Management Solutions and Portals .....	3
COMP 293 Oracle Application Development.....	3
—	<b>24</b>

<i>Recommended Sequence of Courses</i>	
(This sequence assumes any necessary developmental requirements have been met.)	
Semester I	
COMP 107 .....	3
COMP 176 .....	3
COMP 193 .....	3
COMP 215 .....	<u>3</u>
Total Hours: 12	
Semester II	
COMP 203 .....	3
COMP 252 .....	3
COMP 285 .....	3
COMP 293 .....	<u>3</u>
Total Hours: 12	

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in ENGL 009 or 011, READ 009 and 011, and MATH 011, MATT 103, 105 or 109.

**COMPUTER PROGRAMMING TECHNOLOGY 5450**  
**A Two-Year Program Leading to the A.A.S. Degree**

This sequence of both theory and practical applications of computer techniques is aimed at preparing students for entry-level positions as programmers. The goals are to build a solid foundation in several languages and computer usage. Students will develop skills in problem solving and be able to write code from design specifications.

	<b>Credit Hours</b>																																																																					
<b>Major Program Requirements</b>	<b>48</b>																																																																					
ACCT 100 Basic College Accounting .....	3	<table border="1"> <tr> <td align="center" colspan="2"><i>Recommended Sequence of Courses</i></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>COMP 110 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 146 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 175 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 215 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 101 or higher .....</td> <td align="right">3</td> </tr> <tr> <td>PFWL 100 or PFWL 115/HLTH 211 .....</td> <td align="right">2-3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17-18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>ACCT 100 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 130 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 176 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>COMP 193 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 203 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 276 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 285 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 108 .....</td> <td align="right">3</td> </tr> <tr> <td>OADM 266 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>COMP 252 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 273 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 293 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 295(R/W/S) .....</td> <td align="right">3</td> </tr> <tr> <td>ECON 100/201 .....</td> <td align="right">3</td> </tr> <tr> <td>Lab Science Elec. .....</td> <td align="right">3-4</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18-19</td> </tr> </table>	<i>Recommended Sequence of Courses</i>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		COMP 110 .....	3	COMP 146 .....	3	COMP 175 .....	3	COMP 215 .....	3	MATH 101 or higher .....	3	PFWL 100 or PFWL 115/HLTH 211 .....	2-3	Total Hours: 17-18		<b>Semester II</b>		ACCT 100 .....	3	COMP 130 .....	3	COMP 176 .....	3	ENGL 101 .....	3	Soc Sci Elective .....	3	SPCH 143 .....	3	Total Hours: 18		<b>Semester III</b>		COMP 193 .....	3	COMP 203 .....	3	COMP 276 .....	3	COMP 285 .....	3	ENGL 108 .....	3	OADM 266 .....	3	Total Hours: 18		<b>Semester IV</b>		COMP 252 .....	3	COMP 273 .....	3	COMP 293 .....	3	COMP 295(R/W/S) .....	3	ECON 100/201 .....	3	Lab Science Elec. .....	3-4	Total Hours: 18-19	
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COMP 110 Introduction to Computer Concepts .....	3																																																																					
COMP 130 Communications and Networking.....	3																																																																					
COMP 146 Personal Computer Configuration and Management .....	3																																																																					
COMP 175 Principles of Computer Programming.....	3																																																																					
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COMP 293 Oracle Application Development.....	3																																																																					
COMP 295 Systems Development.....	3																																																																					
OADM 266 Professional Business Image .....	3																																																																					
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<b>Liberal Education Core</b>	<b>14-16</b>																																																																					
ECON 100 Elements of Economics -or-																																																																						
ECON 201 Microeconomics .....	3																																																																					
ENGL 108 Technical Writing .....	3																																																																					
PFWL 100 Lifetime Fitness/Wellness -or-																																																																						
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HLTH 211 First Aid .....	2-3																																																																					
Laboratory Science Elective – Common Core List .....	3-4																																																																					
Social Science Elective – Core List .....	3																																																																					
<i>Computer Skills are enhanced by Major Program Requirements.</i>																																																																						

**COMPUTER/SOFTWARE SUPPORT SPECIALIST 5440**  
**A Two-Year Program Leading to the A.A.S. Degree**

This program provides students the training required to enter the workforce in the nation's fastest growing career track as a Computer/Software Support Specialist. Students will be exposed to theoretical and practical applications of programming logic, networking concepts, administration, and computer management, as well as how to assist with the use of computer applications including the Microsoft Office Suite. This program is designed to train the student as a support specialist in computer and software diagnostics. Graduates of this program may be employed as a Computer Support Specialist, Software or Application Support Specialist, Help Desk representative or Technical Analyst.

	<b>Credit Hours</b>																																																																	
<b>Major Program Requirements</b>	<b>48</b>																																																																	
ACCT 100 Basic College Accounting .....	3	<table border="1"> <tr> <td align="center" colspan="2"><b>Recommended Sequence of Courses</b></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>COMP 107 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 130 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 146 .....</td> <td align="right">3</td> </tr> <tr> <td>OADM 161 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 101 .....</td> <td align="right">3</td> </tr> <tr> <td>PFWL 100 or PFWL 115/HLTH 211 .....</td> <td align="right">2-3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17-18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>ACCT 100 .....</td> <td align="right">3</td> </tr> <tr> <td>CNET 236 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 230 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>CMET 240 .....</td> <td align="right">6</td> </tr> <tr> <td>CNET 151 .....</td> <td align="right">3</td> </tr> <tr> <td>CNET 237 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 108 .....</td> <td align="right">3</td> </tr> <tr> <td>OADM 232 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>CMET 275 (R/W/S) ...</td> <td align="right">6</td> </tr> <tr> <td>CNET 238 .....</td> <td align="right">3</td> </tr> <tr> <td>COMP 201 .....</td> <td align="right">3</td> </tr> <tr> <td>ECON 100/201(R) .....</td> <td align="right">3</td> </tr> <tr> <td>Lab Science Elec .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> </table>	<b>Recommended Sequence of Courses</b>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		COMP 107 .....	3	COMP 130 .....	3	COMP 146 .....	3	OADM 161 .....	3	MATH 101 .....	3	PFWL 100 or PFWL 115/HLTH 211 .....	2-3	Total Hours: 17-18		<b>Semester II</b>		ACCT 100 .....	3	CNET 236 .....	3	COMP 230 .....	3	ENGL 101 .....	3	SPCH 143 .....	3	Soc Sci Elective .....	3	Total Hours: 18		<b>Semester III</b>		CMET 240 .....	6	CNET 151 .....	3	CNET 237 .....	3	ENGL 108 .....	3	OADM 232 .....	3	Total Hours: 18		<b>Semester IV</b>		CMET 275 (R/W/S) ...	6	CNET 238 .....	3	COMP 201 .....	3	ECON 100/201(R) .....	3	Lab Science Elec .....	3	Total Hours: 18	
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ECON 100/201(R) .....	3																																																																	
Lab Science Elec .....	3																																																																	
Total Hours: 18																																																																		
CNET 240 Computer Maintenance I .....	6																																																																	
CNET 275 Computer Maintenance II .....	6																																																																	
CNET 151 Security Essentials .....	3																																																																	
CNET 236 Operating Systems I .....	3																																																																	
CNET 237 Operating Systems II .....	3																																																																	
CNET 238 Operating Systems III .....	3																																																																	
COMP 107 Web Page Design .....	3																																																																	
COMP 130 Communications and Networking .....	3																																																																	
COMP 146 Personal Computer Configuration and Management .....	3																																																																	
COMP 201 Computer in Business .....	3																																																																	
COMP 230 Advanced Communications and Networking .....	3																																																																	
OADM 161 Word Processing .....	3																																																																	
OADM 232 Presentation Software .....	3																																																																	
<b>General Education Requirements</b>																																																																		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>																																																																		
<b>Basic Skills Core</b>	<b>9</b>																																																																	
ENGL 101 English Composition I .....	3																																																																	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3																																																																	
SPCH 143 Speech .....	3																																																																	
<i>The Reading Intensive requirement may be met by CMET 275 or ECON 201.</i>																																																																		
<i>The Writing and Speaking Intensive requirements may be met by CMET 275.</i>																																																																		
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<b>Liberal Education Core</b>	<b>14-15</b>																																																																	
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	<b>71-72</b>																																																																	

**CONSTRUCTION TECHNOLOGY 8240**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

Graduates are prepared for positions in residential contracting leading into opportunities in management, estimating, and technology in related fields.

	Credit Hours - A.A.S.	A.S.		
<b>Major Program Requirements</b>	<b>48</b>	<b>54</b>	<b>Recommended Sequence of Courses for A.A.S.</b>	<b>Recommended Sequence of Courses for A.S.</b>
ARCH 102 Architectural Drafting and Print Reading	3	3	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
BLAW 201 Commercial Law I	-	3		
CNST 100 Construction Seminar	1	1		
CNST 105 Framing	2	2		
CNST 105L Framing Laboratory	2	2		
CNST 120 Construction Safety	2	2		
CNST 155 Electrical Wiring	2	2		
CNST 155L Electrical Wiring Laboratory	1	1		
CNST 160 Finish Carpentry	2	2		
CNST 160L Finish Carpentry Laboratory	2	2		
CNST 180 Concrete and Masonry	2	2		
CNST 180L Concrete and Masonry Laboratory	2	2		
CNST 205 Residential House Construction I	8	8		
CNST 210 Mechanical Systems	2	2		
CNST 250 Residential House Construction II	8	8		
CNST 255 Construction Material Takeoff	3	3		
CNST 261 The Indiana Residential Code for One- and-Two-Family Dwellings	3	3		
CNST 270 Construction Labor Rating and Pricing	2	2		
CNST 270L Construction Labor Rating and Pricing Laboratory	1	1		
MGMT 257 Supervision	-	3		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>	<b>10</b>	<b>9</b>		
ENGL 101 English Composition I	3	3		
MATH 102 College Algebra	-	3		
MATT 105 Applied Mathematics I	4	-		
SPCH 143 Speech	3	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by CNST 270 and CNST 270L.</i>				
<i>The Mathematics Intensive requirement may be met by MATT 106 for A.A.S. or by MATH 104 for A.S. or by passing a mathematics assessment examination.</i>				
<b>Liberal Education Core</b>	<b>14-15</b>	<b>20-21</b>		
ENGL 108 Technical Writing	3	3		
HUMN 210 Introduction to Humanities I	-	3		
MATH 104 Trigonometry	-	3		
MATT 106 Applied Mathematics II	3	-		
PFWL 100 Lifetime Fitness/Wellness -or-				
PFWL 115 Concepts in Wellness -and-				
HLTH 211 First Aid	2-3	2-3		
Laboratory Science Elective – Common Core List	-	3		
			<b>Semester I</b>	<b>Semester I</b>
			CNST 100 .....1	ARCH 102 .....3
			CNST 105 .....2	CNST 100 .....1
			CNST 105L .....2	CNST 105 .....2
			CNST 180 .....2	CNST 105L .....2
			CNST 180L .....2	CNST 180 .....2
			ENGL 101 .....3	CNST 180L .....2
			MATT 105 .....4	ENGL 101 .....3
			SPCH 143 .....3	MATH 102 .....3
			Total Hours: 19	Total Hours: 18
			<b>Semester II</b>	<b>Semester II</b>
			ARCH 102 .....3	CNST 120 .....2
			CNST 120 .....2	CNST 155 .....2
			CNST 155 .....2	CNST 155L .....1
			CNST 155L .....1	CNST 160 .....2
			CNST 160 .....2	CNST 160L .....2
			CNST 160L .....2	ENGL 108 .....3
			ENGL 108 .....3	MATH 104(M) .....3
			MATT 106(M) .....3	SPCH 143 .....3
			Total Hours: 18	Soc Sci Elec .....3
				Total Hours: 21
			<b>Semester III</b>	<b>Semester III</b>
			CNST 205 .....8	CNST 205 .....8
			CNST 210 .....2	CNST 255 .....3
			CNST 255 .....3	CNST 261 .....3
			CNST 261 .....3	MGMT 257 .....3
			PFWL 100 or	PFWL 100 or
			PFWL 115/	PFWL 115/
			HLTH 211 .....2-3	HLTH 211 .....2-3
			Total Hours: 18-19	Lab Sci Elec .....3
				Total Hours: 22-23
			<b>Semester IV</b>	<b>Semester IV</b>
			CNST 250 .....8	BLAW 201 .....3
			CNST 270(R/W/S) ..2	CNST 210 .....2
			CNST 270L(R/W/S) 1	CNST 250 .....8
			Soc Sci Elective .....3	CNST 270(R/W/S) ..2
			Science Elective .....3	CNST 270L(R/W/S) .1
			Total Hours: 17	HUMN 210 .....3
				Soc Sci Elective .....3
				Total Hours: 22

*(Continued on the following page)*

Science Elective – Common Core List.....	3	-
Social Science Elective(s) – Core List.....	3	6

*Computer Skills are enhanced by CNST 270.*

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**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**CONSTRUCTION TECHNOLOGY**  
**BUILDING MATERIALS MARKETING CONCENTRATION 8241**  
**Two-Year Program Leading to the A.A.S. or A.S. Degree**

Graduates are prepared for entry level positions in sales, marketing and management with building materials suppliers and manufacturers.

	Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>	<b>42-46</b>	<b>42 -46</b>		
ACCT 100 Basic College Accounting .....	3	3		
ARCH 102 Architectural Drafting and Print Reading .	3	3	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
CNST 100 Construction Seminar.....	1	1		
CNST 105 Framing .....	2	2		
CNST 105L Framing Laboratory .....	2	2		
CNST 160 Finish Carpentry.....	2	2		
CNST 160L Finish Carpentry Laboratory .....	2	2		
CNST 255 Construction Material Takeoff .....	3	3		
CNST 261 The Indiana Residential Code for One-and Two-Family Dwellings .....	3	3		
CNST 270 Construction Labor Rating and Pricing.....	2	2		
CNST 270L Construction Labor Rating and Pricing Laboratory.....	1	1		
CNST 292 Internship in Building Materials <sup>1</sup> .....	0-4	0-4		
COMP 110 Introduction to Computer Concepts .....	3	3		
ENTR 121 Creating a Small Business .....	3	3		
MGMT 255 Principles of Salesmanship .....	3	3		
MGMT 257 Supervisory Management .....	3	3		
MGMT 280 Introduction to Marketing .....	3	3		
Professional Electives <sup>2</sup> .....	3	3		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>	<b>10</b>	<b>9</b>		
ENGL 101 English Composition I .....	3	3		
MATH 101 Intermediate Algebra.....	-	3		
MATT 105 Applied Mathematics I.....	4	-		
SPCH 143 Speech .....	3	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by CNST 270 and CNST 270L.</i>				
<i>The Mathematics Intensive requirement may be met by MATT 109 for A.A.S. or by MATH 102 for A.S. or by passing a mathematics assessment examination.</i>				
<b>Liberal Education Core</b>	<b>17-18</b>	<b>20-21</b>		
ECON 100 Elements of Economics.....	3	3		
ENGL 102 English Composition II .....	- 3	-		
ENGL 107 Business English .....	3	-		
HUMN 210 Introduction to Humanities I .....	-	3		
MATH 102 College Algebra .....	-	3		
MATT 109 Business Mathematics .....	3	-		
PFWL 100 Lifetime Fitness/Wellness -or-				
PFWL 115 Concepts in Wellness -and-				
HLTH 211 First Aid .....	2-3	2-3		
			<b>Semester I</b>	<b>Semester I</b>
			ARCH 102 .....3	ARCH 102 .....3
			CNST 100 .....1	CNST 100 .....1
			CNST 105 .....2	CNST 105 .....2
			CNST 105L .....2	CNST 105L .....2
			CNST 261 .....3	CNST 261 .....3
			ENGL 101 .....3	ENGL 101 .....3
			PFWL 100 or PFWL 115/ HLTH 211 ..... 2-3	MATH 101 .....3
			Total Hours: 16-17	Total Hours: 17
			<b>Semester II</b>	<b>Semester II</b>
			ACCT 100 .....3	ACCT 100 .....3
			CNST 160 .....2	CNST 160 .....2
			CNST 160L .....2	CNST 160L .....2
			ECON 100 .....3	ENGL 102 .....3
			ENGL 107 .....3	MATH 102(M) .....3
			MATT 105 .....4	PSYC 141 .....3
			SPCH 143 .....3	SPCH 143 .....3
			Total Hours: 20	Total Hours: 19
			<b>Semester III</b>	<b>Semester III</b>
			CNST 255 .....3	CNST 255 .....3
			COMP 110 .....3	ECON 100 .....3
			MATT 109(M) .....3	ENTR 121 .....3
			PSYC 141 .....3	HUMN 210 .....3
			Science Elec.....3	Lab Science Elec .....3
			Professional Elec .....3	Professional Elec .....3
			Total Hours: 18	Total Hours: 18
			<b>Semester IV</b>	<b>Semester IV</b>
			CNST 270(R/W/S) ...2	CNST 270(R/W/S) ...2
			CNST 270L(R/W/S).1	CNST 270L(R/W/S).1
			ENTR 121 .....3	COMP 110 .....3
			MGMT 255 .....3	MGMT 255 .....3
			MGMT 257 .....3	MGMT 257 .....3
			MGMT 280 .....3	MGMT 280 .....3
			Total Hours: 15	PFWL 100 or PFWL 115/ HLTH 211 ..... 2-3
				Total Hours: 17-18

(Continued on the following page)

<sup>1</sup> See course description for details regarding this optional internship.

<sup>2</sup> Strongly recommended electives: CNST 120 Construction Safety, CNST 155 Electrical Wiring, CNST 210 Mechanical Systems.







**COSMETOLOGY 7200**  
**A Two-Year Program Leading to the A.A.S. Degree**

This program is designed to prepare students for opportunities in all fields of cosmetology. Some of the areas included are as follows: beauty salon owner, make-up artist, sales technician, salon manager, facial and skin care expert, hair stylist, platform artist, hairpiece consultant, hair coloring technician, manufacturer's representative, cosmetic stylist, and cosmetology instructor. In this program, emphasis is on practical skills, professionalism and business education. Upon completion of this program, graduates are eligible for state licensure.

**Guidelines for Cosmetology Credit:**

Persons who have completed an accredited cosmetology program and have passed the Indiana Cosmetology State Boards may be granted up to 30 credit hours by:

- a. Making application and being accepted as a Vincennes University student;
- b. Submitting a copy of the valid Indiana Cosmetology License; and
- c. Submitting payment for up to 30 credit hours at \$25 per credit hour.
- d. Credit will be awarded for COSM 100, COSM 150, COSM 200, and COSM 250.
- e. The student will be required to complete COSM 275. The student will be assessed on their current cosmetology skills. They will meet at the Vincennes Beauty College 30 hours during the semester.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>39</b>	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p style="text-align: center;"><b>Semester I</b></p> <hr/> <p>COSM 100 ..... 7            ENGL 101 ..... 3            PFWL 100 or PFWL 115/HLTH 211 ..... 2-3            PSYC 142 ..... 3            Total Hours: 15-16</p> <hr/> <p style="text-align: center;"><b>Semester II</b></p> <hr/> <p>ACCT 100 ..... 3            COSM 150 ..... 7            ENGL 107 ..... 3            SPCH 143/148(W) ... 3            Total Hours: 16</p> <hr/> <p style="text-align: center;"><b>Semester III</b></p> <hr/> <p>COSM 200 ..... 7            ECON 208/ACCT 206/OADM 233 ..... 3            Hum/Math/Soc Sci/Sci Elec ..... 3            Math Elective ..... 3            Total Hours: 16</p> <hr/> <p style="text-align: center;"><b>Semester IV</b></p> <hr/> <p>COSM 250 ..... 9            ENTR 121(R/W/S) .... 3            LFSC 100 ..... 4            Total Hours: 16</p>
ACCT 100 Basic College Accounting .....	3	
COSM 100 Cosmetology I.....	7	
COSM 150 Cosmetology II.....	7	
COSM 200 Cosmetology III .....	7	
COSM 250 Cosmetology IV .....	9	
ECON 208 Personal Financial Management -or-		
ACCT 206 Payroll Accounting -or-		
OADM 233 Spreadsheets.....	3	
ENTR 121 Creating a Small Business.....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
100-level or Higher Mathematics Course .....	3	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	
<p><i>The Reading Intensive requirement may be met by ECON 208 or ENTR 121.</i></p> <p><i>The Writing Intensive requirement may be met by ENTR 121 or SPCH 148.</i></p> <p><i>The Speaking Intensive requirement may be met by ENTR 121.</i></p> <p><i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i></p>		
<b>Liberal Education Core</b>	<b>15-16</b>	
ENGL 107 Business English .....	3	
LFSC 100 Human Biology .....	4	
PFWL 100 Lifetime Fitness/Wellness -or-		
PFWL 115 Concepts in Wellness -and-		
HLTH 211 First Aid .....	2-3	
PSYC 142 General Psychology .....	3	
One course from one of the following areas: Humanities, Mathematics -or-		
Science – Broad Core List -or-		
Social Science – Core List .....	3	
<p><i>The Computer Skills requirement is met by Computers Across the Curriculum.</i></p>		

**CULINARY ARTS 7250**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum combines both the practical and the theoretical aspects of food preparation with emphasis on those technical skills required for occupations that include all facets of food preparation. Laboratory experience is stressed to achieve technical excellence in quantity food preparation. Although several years of work experience after graduation will be required to produce the finished chef or cook, the program will provide the fundamentals that individuals would spend years in learning without the completion of this program. Typical entry-level job positions upon graduation include first cook, second cook, chef junior assistant, sauce cook, pastry cook, and sous chef trainee.

<b>Major Program Requirements</b>	<b>Credit Hours - A.A.S.</b>	<b>A.S.</b>	<b>Recommended Sequence of Courses for A.A.S.</b>	<b>Recommended Sequence of Courses for A.S.</b>
CULN 110 Quantity Food Production .....	6	6	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
CULN 150 Advanced Quantity Food Production.....	6	6		
CULN 210 Pastry and Bake Shop Production .....	6	6		
CULN 215 Supervision of the Quantity Food Facility	3	3		
CULN 260 Haute Cuisine and Specialty Food Items ..	7	7		
CULN 270 Culinary Practicum <sup>1</sup> .....	0-2	0-2		
REST 100 Introduction to Hospitality Management ..	3	3		
REST 120 Food Service Sanitation .....	3	3	<b>Semester I</b>	<b>Semester I</b>
REST 155 Quantity Food Purchasing.....	3	3	CULN 110 .....6	CULN 110 .....6
REST 210 Beverage Sales and Service .....	3	3	ENGL 101 .....3	ENGL 101 .....3
REST 230 Menu Planning and Facility Design .....	3	3	REST 120(R) .....3	MATH 101 .....3
			Math Elective ..... 3	REST 120(R) .....3
			Total Hours: 15	SPCH 143/148 ..... 3
				Total Hours: 18
<b>General Education Requirements</b>			<b>Semester II</b>	<b>Semester II</b>
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>	CULN 150 .....6	CULN 150 .....6
ENGL 101 English Composition I .....	3	3	REST 100 .....3	ENGL 102/107/
MATH 101 Intermediate Algebra (or higher mathe- matics).....	-	3	REST 155 .....3	108 .....3
100-level or Higher Mathematics Course .....	3	-	REST 230 .....3	REST 100 .....3
SPCH 143 Speech -or-			SPCH 143/148..... 3	REST 155 .....3
SPCH 148 Interpersonal Communication .....	3	3	Total Hours: 18	REST 230..... 3
				Total Hours: 18
<i>The Reading Intensive requirement may be met by REST 120.</i>			<b>Semester III</b>	<b>Semester III</b>
<i>The Writing and Speaking Intensive requirements may be met by CULN 215.</i>				
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>			CULN 210 .....6	CULN 210 .....6
			CULN 215(W/S) .....3	CULN 215(W/S) .....3
			ENGL 107/108 .....3	PSYC 142 .....3
			REST 210 ..... 3	REST 210 .....3
			Total Hours: 15	Soc Sci Elective ..... 3
				Total Hours: 18
<b>Liberal Education Core</b>			<b>Semester IV</b>	<b>Semester IV</b>
ENGL 102 English Composition II -or-	<b>14</b>	<b>20</b>	CULN 260 .....7	CULN 260 .....7
ENGL 107 Business English -or-			PFWL 100 .....2	PFWL 100 .....2
ENGL 108 Technical Writing .....	3	3	PSYC 142 .....3	Humanities Elec.....3
PFWL 100 Lifetime Fitness/Wellness .....	2	2	Lab Science Elec .....3	Lab Sci Elec .....3
PSYC 142 General Psychology .....	3	3	Soc Sci Elective..... 3	Hum/Sci/Math
Laboratory Science Elective – Common Core List .....	3	3	Total Hours: 18	Elective ..... 3
Humanities Elective – Common Core List .....	-	3		Total Hours: 18
Humanities or Science/Mathematics Elective – Broad Core List .....	-	3		
Social Science Elective – Core List .....	3	3		
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>				
	<b>66-68</b>	<b>72 -74</b>		

<sup>1</sup> This practicum may be served in the summer after completing one year of the program. See course description for details.

**DANCE/THEATRE CERTIFICATE 2605**  
**A Certificate of Program Completion**

The focus of this program of study is to provide training in the fields of Dance and Theatre. Upon completion of this certificate, students will have prepared for employment at a dance/theatre studio in an entry-level position. Students wishing to explore this area can also take additional course work and complete an associate degree in General Studies

	<b>Credit Hours</b>	
DANC 104 Ballet I -or-		<p style="text-align: center;"><b>Recommended Sequence of Courses</b></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester I</b></p> <p>DANC 104/105 ..... 1  DANC 108/109 ..... 1  ENGL 101 ..... 3  MUSM 118 ..... 3  THEA 100 ..... 3  THEA 146 ..... 3  Total Hours: 14</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester II</b></p> <p>DANC 106/107 ..... 1  DANC 111/112 ..... 1  DANC 120 ..... 2  DANC 121 ..... 1  DANC 149 ..... 3  SPCH 143 ..... 3  Theatre Elective ..... 3  Total Hours: 14</p>
DANC 105 Ballet II .....	1	
DANC 106 Tap I -or-		
DANC 107 Tap II.....	1	
DANC 108 Jazz I -or-		
DANC 109 Jazz II.....	1	
DANC 111 Modern Dance I -or-		
DANC 112 Modern Dance II.....	1	
DANC 120 Introduction to Choreography .....	2	
DANC 121 Dance Performance and Production.....	1	
DANC 149 Dance Appreciation .....	3	
ENGL 101 English Composition I .....	3	
MUSM 118 Music Appreciation .....	3	
SPCH 143 Speech .....	3	
THEA 100 Theatre Appreciation .....	3	
THEA 146 Fundamentals of Acting .....	3	
Theatre Elective <sup>1</sup> .....	3	
	<b>28</b>	

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011 and MATH 011, MATT 103, 105 or 109.

<sup>1</sup> Recommended Electives: THEA 125 Stage Make-up Design; THEA 147 Stage Combat; THEA 225 Costume Construction I; THEA 246 Acting II.

**DIESEL TECHNOLOGY 8272**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

The curriculum is designed for those planning to complete a degree leading to employment within the Diesel Industry. Students must select one of three degree concentrations (Diesel Truck and Heavy Equipment Mechanics Technology; John Deere Ag-Tech; or John Deere C & CE-Tech).

	<b>Credit Hours - A.A.S./A.S.</b>
<b>Major Program Requirements</b>	<b>42-55</b>
AUTO 110 Transportation Electrical .....	3
AUTO 110L Transportation Electrical Laboratory .....	1
AUTO 230 Transportation HVAC.....	3
AUTO 230L Transportation HVAC Laboratory .....	1
DESL 130 Diesel Engine Systems.....	4
DESL 130L Diesel Engine Systems Laboratory .....	3
DESL 140 Diesel Hydraulic Systems .....	2
DESL 140L Diesel Hydraulic Systems Laboratory .....	2
DESL 215 Diesel Drive Trains .....	3
DESL 215L Diesel Drive Trains Laboratory .....	2
DESL 240 Diesel Electronic Systems .....	3
DESL 240L Diesel Electronic Systems Laboratory .....	2
Courses in Concentration Areas .....	13-26

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the General education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition I .....	3
SPCH 143 Speech .....	3
Math requirement (See Concentrations) .....	3

*The Reading, Writing and Speaking requirements may be met by designated courses in areas of concentration.  
The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>	<b>15-22</b>
PFWL 100 Lifetime Fitness/Wellness -or-	
PFWL 115 Concepts in Wellness -and-	
HLTH 211 First Aid.....	2-3
Social Science Elective .....	3
Additional Liberal Education Courses (See Concentrations) .....	10-16

*(Continued on the following page)*

**Courses in Concentration Areas**

13-26

<b>Diesel, Truck and Heavy Equipment Concentration 8273</b>		<b>A.A.S.-17</b>	<b>A.S. -13</b>
AUTO 105	Transportation Fundamental .....	2	2
CHMT 100	Fuels, Lubricants, and Coolants .....	4*	-
DESL 120	Diesel Chassis Systems .....	4	4
DESL 120L	Diesel Chassis Systems Laboratory .....	3	3
DESL 260	Diesel Preventative Maintenance .....	3	3
DESL 260L	Diesel Preventative Maintenance Laboratory <sup>R/W/S</sup> .....	1	1
DRAF 120	Computers for Technology.....	2	-
ENGL 108	Technical Writing .....	- 3*	
HIST 125	History of American Technology.....	-	3*
MATH 101	Intermediate Algebra (or higher) .....	-	3*
PHYT 101	Technical Physics.....	- 4*	
Hum/Math/Soc Sci or Writing Elec	.....	3* -	
Hum/Sci/Math Elective	.....	3*	3*
Humanities Elective.....	.....	-	3*
100-level or Higher Mathematics Course	.....	3*	-
Welding Elective .....	.....	2	-

<b>John Deere Ag-Tech Concentration 8274</b>		<b>A.A.S.-26</b>	
AGBS 250	John Deere Tech Computer Technology .....	2	
CHMT 100	Fuels, Lubricants, and Coolants .....	4*	
DEER 150	John Deere Tech Commercial and Consumer Products .....	2	
DEER 150L	John Deere Tech Commercial and Consumer Products Laboratory.....	1	
DEER 161	Agricultural Machinery .....	1	
DEER 161L	Agricultural Machinery Laboratory.....	2	
DEER 163	Tractor System Fundamentals .....	2	
DEER 163L	Tractor System Fundamentals Lab .....	1	
DEER 190	Cooperative Work Experience .....	3	
DEER 237	Advanced Hydraulics .....	3	
DEER 237L	Advanced Hydraulics Laboratory.....	3	
DEER 270	Advanced Diagnostics <sup>R/W/S</sup> .....	3	
DEER 270L	Advanced Diagnostics Laboratory .....	1	
Hum/Math/Sci/Writing Elective	.....	3*	
Hum/Math/Soc Sci/Writing Elective	.....	3*	
100-level or Higher Mathematics Course	.....	3*	
Welding Elective .....	.....	2	

<b>John Deere C &amp; CE (Consumer &amp; Commercial Equipment) Concentration 8275</b>		<b>A.A.S.-23</b>	
AGBS 250	John Deere Tech Computer Technology .....	2	
CHMT 100	Fuels, Lubricants, and Coolants .....	4*	
DEER 150	John Deere Tech Commercial and Consumer Products .....	2	
DEER 150L	John Deere Tech Commercial and Consumer Products Laboratory.....	1	
DEER 163	Tractor Systems Fundamentals .....	2	
DEER 163L	Tractor Systems Fundamentals Lab .....	1	
DEER 190	Cooperative Work Experience .....	3	
DEER 237	Advanced Hydraulics .....	3	
DEER 237L	Advanced Hydraulics Laboratory.....	3	
DEER 270	Advanced Diagnostics <sup>R/W/S</sup> .....	3	
DEER 270L	Advanced Diagnostics Laboratory .....	1	
Hum/Math/Sci/Writing Elective	.....	6*	
100-level or Higher Mathematics Course	.....	3*	
Welding Elective .....	.....	2	

\*Required credits specific to this concentration for the General Education and/or Liberal Education Core are counted in the General Education and/or Liberal Education Core areas.

(Continued on the following page)

**Recommended Sequence of Courses for Concentration Areas follow: (Each sequence assumes any necessary developmental requirements have been met.)**

<b>DIESEL, TRUCK AND HEAVY EQUIPMENT CONCENTRATION 8273 A.A.S. Degree</b>	<b>DIESEL, TRUCK+HEAVY EQUIPMENT CONCENTRATION 8273 A.S. Degree</b>	<b>JOHN DEERE AG-TECH CONCENTRATION A.A.S. Degree 8274</b>	<b>JOHN DEERE C &amp; CE CONCENTRATION 8275 (Consumer+Commercial Equipment) A.A.S. Degree</b>
<b>Semester I</b>	<b>Semester I</b>	<b>Semester I</b>	<b>Semester I</b>
AUTO 105..... 2 AUTO 110..... 3 AUTO 110L..... 1 DESL 120..... 4 DESL 120L..... 3 ENGL 101..... 3 Welding Elec..... 2 Total Hours: 18	AUTO 105..... 2 AUTO 110..... 3 AUTO 110L..... 1 DESL 120..... 4 DESL 120L..... 3 ENGL 101..... 3 Hum/Sci/Math Elec..... 3 Total Hours: 19	AUTO 110..... 3 AUTO 110L..... 1 DEER 161..... 1 DEER 161L..... 2 DEER 163..... 2 DEER 163L..... 1 ENGL 101..... 3 Math Elective..... 3 Welding Elec..... 2 Total Hours: 18	AUTO 110..... 3 AUTO 110L..... 1 DEER 163..... 2 DEER 163L..... 1 ENGL 101..... 3 Math Elective..... 3 Welding Elec..... 2 Total Hours: 15
<b>Semester II</b>	<b>Semester II</b>	<b>Semester II</b>	<b>Semester II</b>
DESL 130..... 4 DESL 130L..... 3 DESL 140..... 2 DESL 140L..... 2 DRAF 120..... 2 SPCH 143..... 3 Math Elective..... 3 Total Hours: 19	DESL 130..... 4 DESL 130L..... 3 DESL 140..... 2 DESL 140L..... 2 MATH 101..... 3 SPCH 143..... 3 Total Hours: 17	AGBS 250..... 2 DEER 150..... 2 DEER 150L..... 1 DESL 130..... 4 DESL 130L..... 3 DESL 140..... 2 DESL 140L..... 2 SPCH 143..... 3 Total Hours: 19	AGBS 250..... 2 DEER 150..... 2 DEER 150L..... 1 DESL 130..... 4 DESL 130L..... 3 DESL 140..... 2 DESL 140L..... 2 SPCH 143..... 3 Total Hours: 19
<b>Semester III</b>	<b>Semester III</b>	<b>Summer</b>	<b>Summer</b>
CHMT 100..... 4 DESL 215..... 3 DESL 215L..... 2 DESL 240..... 3 DESL 240L..... 2 Hum/Math/Soc Sci or Writing Elective..... 3 Total Hours: 17	DESL 215..... 3 DESL 215L..... 2 DESL 240..... 3 DESL 240L..... 2 ENGL 108..... 3 PFWL 100 or PFWL 115/ HLTH 211..... 2-3 Soc Sci Elec..... 3 Total Hours: 18-19	DEER 190..... 3	DEER 190..... 3
<b>Semester III</b>	<b>Semester III</b>	<b>Semester III</b>	<b>Semester III</b>
CHMT 100..... 4 DESL 215..... 3 DESL 215L..... 2 DESL 240..... 3 DESL 240L..... 2 Hum/Math/Soc Sci or Writing Elective..... 3 Total Hours: 17	DESL 215..... 3 DESL 215L..... 2 DESL 240..... 3 DESL 240L..... 2 ENGL 108..... 3 PFWL 100 or PFWL 115/ HLTH 211..... 2-3 Soc Sci Elec..... 3 Total Hours: 18-19	CHMT 100..... 4 DESL 215..... 3 DESL 215L..... 2 DESL 240..... 3 DESL 240L..... 2 Hum/Math/Soc Sci or Writing Elective..... 3 Soc Sci Elec..... 3 Total Hours: 20	CHMT 100..... 4 DESL 215..... 3 DESL 215L..... 2 DESL 240..... 3 DESL 240L..... 2 Social Science Elective..... 3 Hum/Math/Soc Sci or Writing Elective..... 3 Total Hours: 20
<b>Semester IV</b>	<b>Semester IV</b>	<b>Semester IV</b>	<b>Semester IV</b>
AUTO 230..... 3 AUTO 230L..... 1 DESL 260..... 3 DESL 260L(R/W/S)..... 1 PFWL 100 or PFWL 115/ HLTH 211..... 2-3 Hum/Sci/Math Elec..... 3 Soc Science Elec..... 3 Total Hours: 16-17	AUTO 230..... 3 AUTO 230L..... 1 DESL 260..... 3 DESL 260L(R/W/S)..... 1 HIST 125..... 3 PHYT 101..... 4 Humanities Elec..... 3 Total Hours: 18	AUTO 230..... 3 AUTO 230L..... 1 DEER 237..... 3 DEER 237L..... 3 DEER 270(R/W/S)..... 3 DEER 270L..... 1 PFWL 100 or PFWL 115/ HLTH 211..... 2-3 Hum/Math/Soc Sci or Writing Elective..... 3 Total Hours: 19-20	AUTO 230..... 3 AUTO 230L..... 1 DEER 237..... 3 DEER 237L..... 3 DEER 270(R/W/S)..... 3 DEER 270L..... 1 PFWL 100 or PFWL 115/ HLTH 211..... 2-3 Hum/Math/Soc Sci or Writing Elective..... 3 Total Hours: 19-20
<b>Total Credit Hours .....70-71</b>	<b>Total Credit Hours ..... 72-73</b>	<b>Total Credit Hours ..... 79-80</b>	<b>Total Credit Hours ..... 76-77</b>

The Computer Skills requirement is met by Computers Across the Curriculum.

**DRAFTING AND DESIGN/CAD 8330**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This program prepares graduates for entry-level employment as drafters and designers in manufacturing or engineering firms and related industry. The use of Computer Aided Drafting (CAD) is an integral part of the program. *Students intending to complete the Purdue University Industrial Technology B.S. Degree through the VU partnership program are encouraged to consult with their advisor regarding specific course requirements not listed in this catalog.*

		Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>		<b>46-50</b>	<b>46 -50</b>		
DRAF 110	Mechanical Drafting .....	4	4	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  DRAF 110 .....4 DRAF 120 or .....4 DRAF 140 .....2-3 DRAF 145 .....3 DRAF 150 .....3 ENGL 101 .....3 MATT 106.....3 Total Hours: 18-19  <b>Semester II</b>  DRAF 155 .....4 DRAF 185 .....3 DRAF 230(R) .....3 MATT 107(M) .....3 MTTD 135 .....2 MTTD 135L .....1 Total Hours: 16  <b>Summer</b>  DRAF 200 .....0-3  <b>Semester III</b>  DRAF 210 .....4 DRAF 220 .....3 DRAF 278 .....3 DRAF 285(W) .....1 PFWL 100 or PFWL 115/ HLTH 211 .....2-3 SPCH 143/148.....3 Total Hours: 16-17  <b>Semester IV</b>  DRAF 260(S) .....4 DRAF 292 .....3 DRAF 294 .....3 PHYT 101 or PHYS 105/105L.....4-5 Hum/Science/Soc Science Elec .....3 Soc Sci Elec.....3 Total Hours: 20-21	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  DRAF 110 .....4 DRAF 120 or .....4 DRAF 140 .....2-3 DRAF 145 .....3 DRAF 150 .....3 ENGL 101 .....3 MATH 101/ 102(M) .....3 Total Hours: 18-19  <b>Semester II</b>  DRAF 155 .....4 DRAF 185 .....3 DRAF 230(R) .....3 MATH 104 .....3 MTTD 135 .....2 MTTD 135L .....1 Writing Elective.....3 Total Hours: 19  <b>Summer</b>  DRAF 200 .....0-3  <b>Semester III</b>  DRAF 210 .....4 DRAF 220 .....3 DRAF 278 .....3 DRAF 285(W) .....1 PFWL 100 or PFWL 115/ HLTH 211 .....2-3 SPCH 143/148.....3 Soc Sci Elec .....3 Total Hours: 19-20  <b>Semester IV</b>  DRAF 260(S) .....4 DRAF 292 .....3 DRAF 294 .....3 PHYT 101 or PHYS 105/105L 4-5 Humanities Elec.....3 Soc Sci Elec .....3 Total Hours: 20-21
DRAF 120	Computers for Technicians -or-				
DRAF 140	Introduction to CAD (transfer only) .....	2-3	2-3		
DRAF 145	Pro/ENGINEER Fundamentals.....	3	3		
DRAF 150	Descriptive Geometry .....	3	3		
DRAF 155	Advanced Mechanical Drafting .....	4	4		
DRAF 185	Pro/ENGINEER Advanced Part Design..	3	3		
DRAF 200	Internship in Industrial Drafting .....	0-3	0-3		
DRAF 210	Jig and Fixture Design .....	4	4		
DRAF 220	Plastic Part Design .....	3	3		
DRAF 230	Tolerancing Applications .....	3	3		
DRAF 260	Die/Mold Design.....	4	4		
DRAF 278	Pro/ENGINEER Production Drawings and Surface Modeling .....	3	3		
DRAF 285	Employment Seeking Methods .....	1	1		
DRAF 292	Pro/ENGINEER Sheetmetal, Cabling and Piping Design.....	3	3		
DRAF 294	Pro/ENGINEER Advanced Assembly and Mechanism Design.....	3	3		
MTTD135	Manufacturing Processes .....	2	2		
MTTD 135L	Manufacturing Processes Laboratory.....	1	1		
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>					
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>		
ENGL 101	English Composition I .....	3	3		
MATH 101	Intermediate Algebra -or-				
MATH 102	College Algebra .....	-	3		
MATT 106	Applied Mathematics II .....	3	-		
SPCH 143	Speech -or-				
SPCH 148	Interpersonal Communication .....	3	3		
<p><i>The Reading Intensive requirement may be met by DRAF 230.</i>  <i>The Writing Intensive requirement may be met by DRAF 285.</i>  <i>The Speaking Intensive requirement may be met by DRAF 260 or DRAF 285.</i>  <i>The Mathematics Intensive requirement may be met by MATT 107 for A.A.S. or by MATH 102 for A.S. or by passing a mathematics assessment examination.</i></p>					
<b>Liberal Education Core</b>		<b>15-17</b>	<b>21-23</b>		
MATH 104	Trigonometry .....	-	3		
MATT 107	Applied Mathematics III .....	3	-		
PFWL 100	Lifetime Fitness/Wellness -or-				
PFWL 115	Concepts in Wellness -and-				
HLTH 211	First Aid .....	2-3	2-3		
PHYT 101	Technical Physics -or-				
PHYS 105	General Physics I -and-				
PHYS 105L	General Physics Laboratory I .....	4-5	4-5		
Humanities Elective – Common Core List .....		-	3		
Social Science Elective(s) – Core List.....		3	6		

(Continued on the following page)

Writing Elective <sup>1</sup> .....	-	3
One course from one of the following areas:		
Humanities or Science – Broad Core List -or-		
Social Science – Core List.....	3	-

*Computer Skills are enhanced by DRAF 120 or DRAF 140.*

70-76 76 -82

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**NOTE:** A grade of C or better must be maintained in all DRAF courses to advance and graduate.

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<sup>1</sup> Select one of the following: ENGL 102 English Composition II, ENGL 107 Business English, ENGL 108 Technical Writing, ENGL 205 Business Communications, or ENGL 210 Advanced Expository Writing.



**EDUCATION, TEACHER**  
**Two Year Programs Leading to the A.A.S./A.S./A.A. Degrees**

Public school teachers in the state of Indiana must successfully complete a four-year-course of study in order to obtain a teaching license. Vincennes University has been authorized by the Indiana Commission of Higher Education (ICHE) to offer the first two years of the requirements leading to such licensure in nineteen different teacher education programs and concentrations.

The curricula of a university's education programs in the state of Indiana must be approved by the Division of Professional Standards. In addition, the course work must follow general guidelines as set down in the *Administrative Rules of the Indiana State Board of Education (Rules 2002)*, prepared by the Indiana Department of Public Instruction. It is the Department of Public Instruction, Division of Teacher Certification, which ultimately issues the license permitting the holder to be employed as a teacher in the state of Indiana. Vincennes University has created a variety of alternative education concentrations to permit students to transfer successfully to other Indiana colleges and universities to complete their four-year degrees and to obtain licensing as teachers.

The course work for education majors at Vincennes University has been selected to provide students with a sound, comprehensive, introduction to the field, to meet *Rules 2002* guidelines, and to provide for efficient transfer to most teacher preparation institutions in Indiana. However, students completing their two-year program in education at Vincennes University may find, upon transfer, some differences exist in the requirements for course work in the first two years between Vincennes University and the transfer institution. It is recommended that a VU student majoring in education review the requirements of their proposed transfer institution as soon as possible after initial enrollment at Vincennes University.

Formal admission into a teacher education program at most four-year Indiana teacher preparation institutions commences during the fall semester of the Junior year. Prior to admission to the education programs most universities require that students attain a minimum cumulative GPA and meet Indiana state required scores on the Praxis I.

Vincennes University offers nineteen teacher education programs and concentrations. These correspond to the teacher license content and developmental areas as listed in *Rules 2002*. The content majors and developmental areas of these concentrations are outlined below.

<b>Concentrations</b>	<b>Developmental Area</b>
A. Education, Early Childhood .....	Pre-kindergarten
B. Education, Elementary .....	K-6
C. Education, Secondary .....	7-12
1. Business .....	7-12
2. Chemistry .....	9-12
3. English/Language Arts .....	9-12
4. Family and Consumer Sciences .....	7-12
5. Fine Arts: Visual Arts .....	7-12
6. Health .....	7-12
7. Mathematics A.S./A.A. ....	9-12
8. Music .....	7-12
9. Technology .....	7-12
D. Education, All Grade	
1. Fine Arts: Visual Arts .....	K-12
2. Music .....	K-12
3. Physical Education .....	K-12
4. Special Education .....	K-12
5. Teaching Paraprofessional .....	K-12
6. Technology .....	K-12

## **EDUCATION, TEACHER**

### **Four Year Programs Leading to B.S. Degrees**

Vincennes University has been authorized by the Indiana Commission of Higher Education (ICHE) to offer three selected four-year teacher education programs: Special Education, Mild Intervention, Elementary; Secondary Math Education; and Secondary Science Education.

The Special Education, Mild Intervention, Elementary teacher education program is a course of study that leads to dual licensure in Special Education (Mild Intervention) and Elementary Education, Grades K-6. The Special Education Mild Interventions license includes teaching students with learning disabilities, emotional disabilities, and mild mental disabilities. Students must be admitted into the Special Education Mild Intervention, Elementary Teacher program and into Student Teaching.

The Secondary Science program is designed for those planning to complete a bachelor's degree leading to licensure as secondary teachers of science. Licensure will be available in the following content areas: Chemistry, Earth and Space, Life Science, Physical Science, and Physics. Students must be admitted into the Science Education program and into Student Teaching.

The Secondary Mathematics program is designed for those planning to complete a bachelor's degree leading to licensure as secondary teachers of mathematics. Students must be admitted into the Mathematics Education program and into Student Teaching.

The Vincennes University education programs have been approved by the Division of Professional Standards at the Indiana Department of Education. In addition, the course work follows general guidelines as set forth by the *Administrative Rules of the Indiana State Board of Education (Rules 2002)*, prepared by the Indiana Department of Public Instruction. The Department of Public Instruction, Division of Teacher Certification, will ultimately issue the license permitting the holder to be employed as a teacher in the state of Indiana.

During the first two years of the Teacher Education program, students work toward completing General Education requirements, Liberal Education courses, and Education core courses. Students must complete all Education Core courses before being admitted to the Teacher Education program. Formal admission to the program commences in the spring semester of the sophomore year by submitting an application to the Teacher Education program. Formal admission to the program commences in the spring semester of the sophomore year. All prospective students must submit an application to the Teacher Education program.

#### **The following provides a description of the Special Education Gateways:**

##### **Gateway One: Declaration of the Teaching Major (during freshman or sophomore year)**

- Complete all university developmental courses
- Meet with an education advisor to review program requirements
- Cover Praxis I information with advisor
- Submit a satisfactory criminal history report

##### **Gateway Two: Admission to Teacher Education (by the beginning of junior year)**

- Submit an application to the Teacher Education Program
  - Passing scores (Indiana) on Praxis I
  - Completion of all 100 and 200 level education courses
  - Overall GPA of 2.75 or higher
  - GPA of 2.75 or higher in education core classes: EDUC 200, EDUC 242, EDUC 290, EDUC 291, EDUC 292, EDUC 293 with no grade lower than a "C" and no Incomplete grade ("I") in any education coursework
  - Satisfactory assessment of initial portfolio by education faculty members (EDUC 290 and 293)
  - Satisfactory criminal history report
  - Satisfactory performance evaluations from all field experiences
  - Satisfactory rating on dispositional evaluations from supervisors of field experiences and core course instructors
  - Signed recommendation form from advisor

**Gateway Three: Admission to Student Teaching (prior to end of junior year)**

- Submit an application for the student teaching experience
  - Completion of all prerequisite education coursework
  - Overall GPA of 2.75 or higher
  - GPA of 2.75 or higher on education coursework with no grade lower than a “C” and no Incomplete grade (“I”) in any education course
  - Continued satisfactory ratings on dispositional evaluations from select methods courses
  - Satisfactory criminal history report
- After admission, attend a mandatory student teacher preparation meeting

**Gateway Four: Indiana State Licensure (completed by end of senior year)**

- Successfully complete student teaching in both the Elementary and Special Education placements
- Pass Praxis II: Subject
- Satisfactorily complete Teacher Education Portfolio
- Complete application materials for an Indiana teaching license
- Submit satisfactory criminal history report

**The following provides a description of the Math and Science Education Gateways:****Gateway One: Declaration of the Teaching Major (during freshman or sophomore year)**

- Successfully complete all university developmental courses
- Meet with an advisor to review education program requirements
- Cover Praxis I information with advisor

**Gateway Two: Admission to Teacher Education (by the beginning of junior year)**

- Submit an application to the Teacher Education Program
  - Passing scores (Indiana) on Praxis I
  - Completion of all 100 and 200 level education courses
  - Overall GPA of 2.75 or higher
  - GPA of 2.75 or higher in education core classes: EDUC 200, EDUC 218, EDUC 290, EDUC 291, EDUC 292 with no grade lower than a “C” and no Incomplete grade (“I”) in any education coursework
  - For the Secondary Science program, GPA of 2.75 or higher in Semester I through IV General Science Core and Concentration courses with no grade lower than a “C” and no Incomplete grade (“I”) in any General Science Core or Concentration courses.
  - For the Secondary Mathematics program, GPA of 2.75 or higher in Semester I through IV Major Program Requirements courses with no grade lower than a “C” and no Incomplete grade (“I”) in any Major Program Requirement courses.
  - Satisfactory assessment of initial portfolio by education faculty members (EDUC 290)
  - Satisfactory performance evaluations from all field experiences
  - Satisfactory rating on dispositional evaluations from supervisors of field experiences and core course instructors
  - Signed recommendation form from advisor

**Gateway Three: Admission to Student Teaching (prior to end of junior year)**

- Submit an application for the student teaching experience
  - Completion of all prerequisite education coursework
  - Overall GPA of 2.75 or higher
  - GPA of 2.75 or higher on education coursework with no grade lower than a “C” and no Incomplete grade (“I”) in any education course
  - For the Secondary Science program, GPA of 2.75 or higher in General Science Core and Concentration courses with no grade lower than a “C” and no Incomplete grade (“I”) in any General Science Core or Concentration courses.
  - For the Secondary Mathematics program, GPA of 2.75 or higher in Major Program Requirements courses with no grade lower than a “C” and no Incomplete grade (“I”) in any Major Program Requirement courses.
  - Continued satisfactory ratings on dispositional evaluations from select methods courses
  - Submission of a valid limited criminal history check
- After admission, attend a mandatory student teacher preparation meeting

**Gateway Four: Indiana State Licensure (completed by end of senior year)**

- Successfully complete student teaching experiences
- Pass Praxis II: Subject
- Satisfactorily complete Teacher Education Portfolio
- Complete application materials for an Indiana teaching license
- Submit valid national criminal history report

Each teacher candidate must see his/her advisor for information regarding the criminal history reports. Costs for the reports are the responsibility of the student. The criminal history reports become a part of the teacher candidate's file and will be reviewed by faculty members of the Education Department.

If the criminal history reports yield any significant findings, a faculty committee will determine the acceptability of the applicant's criminal history for admission into the teacher education program and/or admission into student teaching. If the applicant is not approved for admission to either the program or student teaching, then the applicant may appeal the decision. The appeal will be reviewed by a committee composed of faculty, the teaching candidate's advisor, and the Dean of Social Sciences/Performing Arts Division. After considering all the information, the decision regarding termination from either the program or student teaching will be made. The teacher candidate will receive written notification within five calendar days of the meeting. If the student is to be removed from the education program and/or student teaching, the written notification will include the reasons for termination.

Following a successful student teaching experience, receiving passing scores on the Praxis II, and satisfactory completion of the Teacher Education Portfolio, the teacher candidate may apply for an Indiana teaching license through the Department of Public Instruction, Division of Teacher Certification. State requirements change frequently. In licensing our teacher candidates, Vincennes University does not determine whether the teacher candidate receives a teaching license from the state of Indiana. The state of Indiana will determine whether a candidate receives a license. A candidate must complete all requirements for a bachelor's degree before the state will grant permission to apply for a teaching license.

<b>Bachelor Degrees</b>	<b>Developmental Area</b>
A. Education – Mathematics 4000 .....	9-12
B. Education – Science 4001 .....	9-12
C. Education – Special Education, Mild Intervention 1000 .....	K-6



**Liberal Education Core**

	<b>18-21</b>	<b>26-29</b>
ENGL 102 English Composition II <sup>1</sup> .....	0-3	0-3
LITR 220 Introduction to World Literature I		-or-
Humanities Elective – Common Core List. ....	3	3
LITR 221 Introduction to World Literature II		-or-
Humanities or Science/Mathematics Elective – Broad Core List <sup>1</sup> .....	3	3
PFWL 100 Lifetime Fitness/Wellness .....	2	2
PSYC 142 General Psychology .....	3	3
Laboratory Science Elective – Common Core List .....	4	4
Social Science Elective – Core List .....	3	3
Foreign Language Elective .....	-	8

*The A.A. Computer Skills requirement is met by Computers Across the Curriculum. Computer Skills are enhanced by ARTT 140 or EDUC 200 for A.S.  
The Second Writing Skills Course requirement may be met by LITR 220/221*

69-72 71 -74

Semester IV	Semester IV
ARTT 212 .....1	ARTT 212 .....1
EDUC 292 .....3	EDUC 292 .....3
LITR 221 or Hum/ Sci/Math Elec .....3	Foreign Lang .....4
Lab Science Elec .....4	Lab Science Elec .....4
Soc Sci Elective.....3	Soc Sci Elective.....3
200-Level Studio Elective(S) ..... 3	200-Level 3D Studio Elec(S)..... 3
Total Hours: 17	Total Hours: 18

<sup>1</sup> A.A. degree students not selecting the combination of LITR 220/221 to satisfy the second writing skills requirement will need to complete 6 hours of Humanities Electives in addition to ENGL 102. A.S. degree students not selecting the combination of LITR 220/221 to satisfy the second writing skills requirement will need to complete 3 hours in a Humanities Elective and a 3-hour elective to be selected from Humanities, Science or Mathematics courses in addition to ENGL 102. Students transferring to Indiana University should take ENGL 210 Advanced Expository Writing or the literature option of LITR 220 and 221 instead of ENGL 102.

**EDUCATION – BUSINESS CONCENTRATION 5100**  
**Teaching License Coverage: Grades 6-12**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed to provide the first two years of a four-year program of courses leading to licensing as secondary education teachers in business. This program also prepare students for careers in professional secretarial work, general office administration and management, or administrative and office systems.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>38</b>	
ACCT 201 Principles of Accounting I .....	3	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester I</b></p> <p>ENGL 101 .....3            EARTH 100 .....3            HIST 139/140 .....3            MATH 101 .....3            PSYC 142 .....3            Total Hours: 15</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester II</b></p> <p>ENGL 102 .....3            PFWL 100 .....2            PSYC 242 .....3            SPCH 143/148 .....3            Literature Elec .....3            Elective .....3            Total Hours: 17</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester III</b></p> <p>ACCT 201 .....3            ECON 201(R) .....3            EDUC 290(W/S) .....3            LFSC 100/101 .....4            MATH 111(M) .....3            OADM 100/150 .....2            Total Hours: 18</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester IV</b></p> <p>ACCT 202 .....3            ECON 202 .....3            ENGL 250 .....3            MGMT 265 .....3            PSYC 201 .....3            Humanities Elec .....3            Total Hours: 18</p>
ACCT 202 Principles of Accounting II .....	3	
ECON 201 Microeconomics .....	3	
EDUC 290 Initial Experiences in Education .....	3	
ENGL 250 English Grammar .....	3	
ERTH 100 Earth Science .....	3	
HIST 139 American History I -or-		
HIST 140 American History II .....	3	
MGMT 265 Business Statistics .....	3	
OADM 100 Keyboarding I -or-		
OADM 150 Keyboarding II .....	2	
PSYC 201 Developmental Psychology .....	3	
PSYC 242 Educational Psychology .....	3	
Literature Elective .....	3	
Elective <sup>1</sup> .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by EDUC 290. The Mathematics Intensive requirement may be met by MATH 111.</i>		
<b>Liberal Education Core</b>	<b>21</b>	
ECON 202 Macroeconomics .....	3	
ENGL 102 English Composition II .....	3	
LFSC 100 Human Biology -or-		
LFSC 101 Plant an Animal Biology .....	4	
MATH 111 Finite Mathematics .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PSYC 142 General Psychology .....	3	
Humanities Elective – Common Core List .....	3	
<i>The Computer Skills requirement is met by Computers Across the Curriculum. ___</i>		
	<b>68</b>	

<sup>1</sup> Strongly recommended electives: MATH 115 Survey of Calculus I or BLAW 203 Legal Environment of Business.

**EDUCATION – CHEMISTRY CONCENTRATION 4120**  
**Teaching License Coverage: Grades 9-12**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed to complete the first two years of a four-year program of courses leading to licensing as secondary education teachers of chemistry.<sup>1</sup>

	<b>Credit Hours</b>		
<b>Major Program Requirements</b>	<b>31</b>		
CHEM 105 General Chemistry I .....	3	<p style="text-align: center;"><b>Recommended Sequence of Courses</b></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p style="text-align: center;"><b>Semester I</b></p> <hr/> <p>CHEM 105 .....3            CHEM 105L..... 2            ENGL 101 .....3            MATH 118(M) .....5            PSYC 142..... 3            Total Hours: 16</p> <hr/> <p style="text-align: center;"><b>Semester II</b></p> <hr/> <p>CHEM 106(R) .....3            CHEM 106L..... 2            ENGL 102 .....3            MATH 119 .....5            SPCH 148..... 3            Total Hours: 16</p> <hr/> <p style="text-align: center;"><b>Semester III</b></p> <hr/> <p>CHEM 215 .....3            CHEM 215L(W/S) .....2            EDUC 290 .....3            PFWL 100 .....2            PHYS 105 .....4            PHYS 105L..... 1            PSYC 201..... 3            Total Hours: 18</p> <hr/> <p style="text-align: center;"><b>Semester IV</b></p> <hr/> <p>CHEM 216 .....3            CHEM 216L..... 2            ENGL 250 .....3            PHIL 212 .....3            PHYS 106 .....4            PHYS 106L..... 1            Total Hours: 16</p>	
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2		
CHEM 106 General Chemistry II.....	3		
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2		
CHEM 215 Organic Chemistry I .....	3		
CHEM 215L Organic Chemistry Laboratory I.....	2		
CHEM 216 Organic Chemistry II .....	3		
CHEM 216L Organic Chemistry Laboratory .....	2		
EDUC 290 Initial Experiences in Education .....	3		
ENGL 250 English Grammar .....	3		
PHYS 106 General Physics II .....	4		
PHYS 106L General Physics Laboratory II .....	1		
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b>	<b>11</b>		
ENGL 101 English Composition I .....	3		
MATH 118 Calculus with Analytic Geometry I .....	5		
SPCH 148 Interpersonal Communication .....	3		
<i>The Reading Intensive requirement may be met by CHEM 106.</i>			
<i>The Writing and Speaking Intensive requirements may be met by CHEM 215L.</i>			
<i>The Mathematics Intensive requirement may be met by MATH 118.</i>			
<b>Liberal Education Core</b>	<b>24</b>		
ENGL 102 English Composition II .....	3		
MATH 119 Calculus with Analytic Geometry II .....	5		
PFWL 100 Lifetime Fitness/Wellness .....	2		
PHYS 105 General Physics I .....	4		
PHYS 105L General Physics Laboratory I.....	1		
PHIL 212 Introduction to Ethics.....	3		
PSYC 142 General Psychology .....	3		
PSYC 201 Developmental Psychology .....	3		
<i>Computer Skills are enhanced by CHEM 215L. ___</i>			
	<b>66</b>		

<sup>1</sup> Students wanting to transfer to Purdue University to earn a teaching degree should take the same curriculum as the chemistry major, Biological and Physical Sciences – Chemistry Concentration 4090.



**EDUCATION – EARLY CHILDHOOD CONCENTRATION 1150**  
**Teaching License Coverage: Pre-Kindergarten**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

The State of Indiana will soon require a 4-year teaching license for those wishing to teach pre-kindergarten-aged children in state-funded programs. This license is also required by those who operate certified private pre-school day-care centers and programs. Teachers working for Indiana Head Start are presently required to have an associate degree in Early Childhood Education or a related area. This major provides a good foundation for those wishing to transfer to a four-year program in Early Childhood Education.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>31</b>	<p align="center"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>EDUC 260 .....3  ENGL 101 .....3  PSYC 142 .....3  SPCH 143/148(W) .....3  Directed Elective .....3  Total Hours: 15</p> <hr/> <p><b>Semester II</b></p> <p>EDUC 291 .....3  ENGL 102 .....3  LFSC 100 .....4  Directed Electives .....6  Total Hours: 16</p> <hr/> <p><b>Semester III</b></p> <p>EDUC 218 .....3  ERTH 207 .....3  LITR 220(R/W/S)/  221(R/W/S) .....3  MATH 112 .....4  PFWL 100 .....2  Child Care Elec .....3  Total Hours: 18</p> <hr/> <p><b>Semester IV</b></p> <p>EDUC 290(R/W/S) .....3  HIST 139 .....3  LITR 240(R) .....3  MATH 212 .....4  Child Care Elec .....3  Total Hours: 16</p>
EDUC 218 Psychology of Childhood and Adolescence .....	3	
EDUC 260 Childhood Health, Safety, and Nutrition.....	3	
EDUC 290 Initial Experiences in Education .....	3	
EDUC 291 Introduction to Exceptionalities .....	3	
MATH 212 Math for Teachers II .....	4	
Child Care Electives <sup>1</sup> .....	6	
Directed Electives <sup>2</sup> .....	9	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>10</b>	
ENGL 101 English Composition I .....	3	
MATH 112 Math for Teachers I.....	4	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading Intensive requirement may be met by EDUC 290 or LITR 220 or LITR 221 or LITR 240.</i>		
<i>The Writing Intensive requirement may be met by EDUC 290 or LITR 220 or LITR 221 or SPCH 148.</i>		
<i>The Speaking Intensive requirement may be met by EDUC 290 or LITR 220 or LITR 221.</i>		
<i>The Mathematics Intensive requirement may be met by MATH 212.</i>		
<b>Liberal Education Core</b>	<b>24</b>	
ENGL 102 English Composition II .....	3	
ERTH 207 World Geography .....	3	
HIST 139 American History I -or-		
HIST 140 American History II .....	3	
LFSC 100 Human Biology.....	4	
LITR 220 Introduction to World Literature I -or-		
LITR 221 Introduction to World Literature II .....	3	
LITR 240 Children's Literature .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PSYC 142 General Psychology .....	3	
<i>Computer Skills are enhanced by EDUC 200. ___</i>		
	<b>65</b>	

<sup>1</sup> To be chosen from the following: FACS 130 Infant, Toddler and Child Care, FACS 235 Child Care and Curriculum Development, or FACS 237 Child Care Administration.

<sup>2</sup> To be chosen from the following: EDUC 200 Computer Technology for Teachers, EDUC 292 Foundations of Education, HIST 236 World Civilization II, MUSM 225 Music in the Elementary Classroom, or PHED 210 Physical Education for the Elementary School.

**EDUCATION – ELEMENTARY CONCENTRATION 1100**  
**Teaching License Coverage: Grades K-6**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

Students selecting this curriculum will begin their preparations for a career as elementary education teachers in grades K through 6. These courses provide the first two years of a four-year degree program leading to teacher licensing. The curriculum can also provide the foundation for careers in a variety of child-care occupations other than teaching.

	<b>Credit Hours</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
<b>Major Program Requirements</b>		
	<b>35-36</b>	
EDUC 101 Introduction to Education .....	1	
EDUC 200 Computer Technology for Teachers .....	3	
EDUC 290 Initial Experiences in Education .....	3	
EDUC 291 Introduction to Exceptionalities .....	3	
EDUC 292 Foundations of Education .....	3	
HIST 236 World Civilization II .....	3	
MATH 212 Mathematics for Elementary Teachers II .....	4	
MUSM 225 Music in the Elementary Classroom .....	3	
PHED 210 Physical Education for the Elementary School .....	3	
Psychology Elective <sup>1</sup> .....	3-4	
Physical Science Elective .....	3	
Art Elective <sup>2</sup> .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b> <span style="float: right;"><b>10</b></span>		
ENGL 101 English Composition I .....	3	
MATH 112 Mathematics for Elementary Teachers I .....	4	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by EDUC 290. The Mathematics Intensive requirement may be met by MATH 112.</i>		
<b>Liberal Education Core</b> <span style="float: right;"><b>21</b></span>		
ENGL 102 English Composition II .....	3	
HIST 139 American History I -or-		
HIST 140 American History II .....	3	
LFSC 100 Human Biology .....	4	
LITR 220 Introduction to World Literature I -or-		
LITR 221 Introduction to World Literature II .....	3	
LITR 240 Children's Literature .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PSYC 142 General Psychology .....	3	
<i>Computer Skills are enhanced by EDUC 200.</i>		
	<b>66-67</b>	
<b>Semester I</b>		
EDUC 101 .....	1	
EDUC 200 .....	3	
ENGL 101 .....	3	
LFSC 100 .....	4	
PSYC 142 .....	3	
Art Elective .....	3	
Total Hours: 17		
<b>Semester II</b>		
EDUC 291 .....	3	
ENGL 102 .....	3	
HIST 236 .....	3	
MATH 112(M).....	4	
SPCH 143/148.....	3	
Total Hours: 16		
<b>Semester III</b>		
EDUC 290(R/W/S) .....	3	
EDUC 292 .....	3	
LITR 240 .....	3	
MATH 212 .....	4	
Psychology Elec. ....	3-4	
Total Hours: 16-17		
<b>Semester IV</b>		
HIST 139/140 .....	3	
LITR 220/221 .....	3	
MUSM 225 .....	3	
PFWL 100 .....	2	
PHED 210 .....	3	
Phys Science Elec .....	3	
Total Hours: 17		

<sup>1</sup> To be chosen from the following: PSYC 201 Developmental Psychology, or PSYC 242 Educational Psychology. An optional 1-hour laboratory course (EDUC 242L) is available for students transferring to baccalaureate institutions requiring field experience in addition to the lecture content of Education Psychology.

<sup>2</sup> ARTT 104 Design in Materials or ARTT 110 Art Appreciation recommended.

**EDUCATION – ENGLISH CONCENTRATION 2151**  
**Teaching License Coverage: Grades 9-12**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed for students wishing to complete the first two years of a four-year program leading to licensing as a secondary education teacher in English.

	Credit Hours	
<b>Major Program Requirements</b>	<b>33-34</b>	
EDUC 200 Computer Technology for Teachers .....	3	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p style="text-align: center;"><b>Semester I</b></p> <p>EDUC 200 .....3  ENGL 101 .....3  HIST 139 .....3  PSYC 142 .....3  Literature Elective.....3  Total Hours: 15</p> <hr/> <p style="text-align: center;"><b>Semester II</b></p> <p>EDUC 291 .....3  ENGL 102/210 .....3  HIST 140 .....3  PFWL 100 .....2  SPCH 143 .....3  Literature Elective.....3  Total Hours: 17</p> <hr/> <p style="text-align: center;"><b>Semester III</b></p> <p>EDUC 290(R/W/S) .....3  EDUC 292 .....3  ENGL 249(R/W) .....3  MATH 101 .....3  Psychology Elec. ...3-4  Total Hours: 15-16</p> <hr/> <p style="text-align: center;"><b>Semester IV</b></p> <p>ENGL 250 .....3  Lab Science Elec .....3  Literature Elective.....3  Humanities Elec .....3  Hum/Sci/Math Elec. ...3  Total Hours: 15</p>
EDUC 290 Initial Experiences in Education .....	3	
EDUC 291 Introduction to Exceptionalities .....	3	
EDUC 292 Foundations of Education .....	3	
ENGL 249 Elements of General Linguistics .....	3	
ENGL 250 English Grammar .....	3	
PSYC 142 General Psychology .....	3	
Literature Electives .....	9	
Psychology Elective <sup>1</sup> .....	3-4	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech .....	3	
<i>The Reading and Writing Intensive requirements may be met by EDUC 290 or ENGL 249.</i>		
<i>The Speaking Intensive requirement may be met by EDUC 290.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>	<b>20</b>	
ENGL 102 English Composition II -or-		
ENGL 210 Advanced Expository Writing.....	3	
HIST 139 American History I.....	3	
HIST 140 American History II .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
Laboratory Science Elective – Common Core List .....	3	
Humanities Elective – Common Core List .....	3	
Humanities or Science/Math Elective – Broad Core List .....	3	
<i>Computer Skills are enhanced by EDUC 200.</i>		
	<b>62-63</b>	

<sup>1</sup> To be chosen from the following: PSYC 242 Educational Psychology, PSYC 201 Developmental Psychology, or PSYC 218 Psychology of Childhood and Adolescence. An optional 1-hour laboratory course (EDUC 242L) is available for students transferring to baccalaureate institutions requiring field experience in addition to the lecture content of Education Psychology.

**EDUCATION – FAMILY AND CONSUMER SCIENCES CONCENTRATION 2306**

**Teaching License Coverage: Grades 7-12**

**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed for students wishing to complete the first two years of a four-year program leading to licensing as a Family and Consumer Sciences teacher in grades 7 through 12.

	<b>Credit Hours</b>		
<b>Major Program Requirements</b>	<b>32-33</b>		
EDUC 290 Initial Experiences in Education <sup>1</sup> .....	3	<p align="center"><i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p align="center"><b>Semester I</b></p> <hr/> ENGL 101 .....3 FACS 100 .....1 FACS 130 .....3 SPCH 143 .....3 Interior Desn Elec.....3 Total Hours: 13	
FACS 100 Survey of Family and Consumer Sciences.....	1		
FACS 130 Infant, Toddler, and Child Care .....	3		
FACS 156 Marriage and Family .....	3		
FACS 206 Fundamentals of Nutrition .....	3		
FACS 210 Food Preparation .....	3		
FACS 225 Textiles .....	3		
PSYC 242 Educational Psychology <sup>2</sup> .....	3		
Interior Design and Housing Elective <sup>3</sup> .....	3		
Clothing Elective <sup>4</sup> .....	3-4		
Electives .....	4		
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b>	<b>9</b>		<p align="center"><b>Semester II</b></p> <hr/> ARTT 110/130/131 ....3 ENGL 102 .....3 FACS 156(R/W) .....3 FACS 210(S) .....3 MATH 101 .....3 Clothing Elective 3-4 Total Hours: 18-19
ENGL 101 English Composition I .....	3		
MATH 101 Intermediate Algebra (or higher mathematics) .....	3		
SPCH 143 Speech .....	3		
<i>The Reading and Writing Intensive requirements may be met by FACS 156. The Speaking Intensive requirement may be met by FACS 210. The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>			
<b>Liberal Education Core</b>	<b>21</b>	<p align="center"><b>Semester III</b></p> <hr/> ECON 100/201/202....3 EDUC 290 .....3 FACS 206 .....3 PSYC 142 .....3 PSYC 242 .....3 Total Hours: 15	
ARTT 110 Art Appreciation -or-			
ARTT 130 Art History I – Pre-history to 1500 -or-			
ARTT 131 Art History II – 1500 to Present .....	3		
ECON 100 Elements of Economics -or-			
ECON 201 Microeconomics -or-			
ECON 202 Macroeconomics .....	3		
ENGL 102 English Composition II .....	3		
PFWL 100 Lifetime Fitness/Wellness .....	2		
PSYC 142 General Psychology .....	3		
Laboratory Science Elective – Common Core List .....	4		
Humanities or Science/Mathematics Elective – Broad Core List.....	3		
<i>The Computer Skills requirement is met by Computers Across the Curriculum. _</i>			
	<b>62-63</b>	<p align="center"><b>Semester IV</b></p> <hr/> FACS 225 .....3 PFWL 100 .....2 Hum/Sci/Math Elec.. 3 Lab Science Elec.....4 Electives .....4 Total Hours: 16	

<sup>1</sup> Students should confer with a Family and Consumer Sciences advisor at intended school of transfer to determine which of the following should be taken: EDUC 200 Introduction to Classroom Computing, EDUC 291 Introduction to Exceptionalities, or EDUC 292 Foundations of Education.

<sup>2</sup> An optional 1-hour laboratory course (EDUC 242L) is available for students transferring to baccalaureate institutions requiring field experience in addition to the lecture content of Education Psychology.

<sup>3</sup> Students must select one of the following: FACS 101 Color, Texture and Furniture or FACS 202 Housing Design.

<sup>4</sup> Students must select one of the following: FACS 115 Clothing I, FACS 215 Clothing II, or FACS 220 Tailoring.

**EDUCATION – HEALTH PROMOTION/HEALTH EDUCATION CONCENTRATION 3106**  
**Teaching License Coverage: Grades 7-12 (Secondary)**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed as a two-year transfer program for students who wish to pursue a health and wellness related career. Upon completion of this program, students will be eligible to transfer to their selected four-year institution leading to a degree in health and safety education, community health, occupational health and safety, and other health promotion related degrees. Potential employment settings include Public and Private education, national, state, and local health agencies, and private industry.

	<b>Credit Hours</b>																																																																					
<b>Major Program Requirements</b>	<b>35</b>	<table border="1"> <tr> <td align="center" colspan="2"><i>Recommended Sequence of Courses</i></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>ATTR 199 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>HLTH 101 .....</td> <td align="right">3</td> </tr> <tr> <td>HLTH 211 .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 111 .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 111L .....</td> <td align="right">1</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>ENGL 102 .....</td> <td align="right">3</td> </tr> <tr> <td>HLTH 210(R) .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 112 .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 112L .....</td> <td align="right">1</td> </tr> <tr> <td>Dir Sociology Elec .....</td> <td align="right">3</td> </tr> <tr> <td>Dir Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>EDUC 200 .....</td> <td align="right">3</td> </tr> <tr> <td>HLTH 201(R/W/S) .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 101 .....</td> <td align="right">3</td> </tr> <tr> <td>PHED 225 .....</td> <td align="right">2</td> </tr> <tr> <td>SOCL 151 .....</td> <td align="right">3</td> </tr> <tr> <td>Dir Elective .....</td> <td align="right">2</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>HLTH 213 .....</td> <td align="right">2</td> </tr> <tr> <td>PSYC 142 .....</td> <td align="right">3</td> </tr> <tr> <td>Dir Human Elec .....</td> <td align="right">3</td> </tr> <tr> <td>Dir Sociology Elec .....</td> <td align="right">3</td> </tr> <tr> <td>Directed Elec .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 14</td> </tr> </table>	<i>Recommended Sequence of Courses</i>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		ATTR 199 .....	3	ENGL 101 .....	3	HLTH 101 .....	3	HLTH 211 .....	2	LFSC 111 .....	2	LFSC 111L .....	1	SPCH 143 .....	3	Total Hours: 17		<b>Semester II</b>		ENGL 102 .....	3	HLTH 210(R) .....	3	LFSC 112 .....	2	LFSC 112L .....	1	Dir Sociology Elec .....	3	Dir Elective .....	3	Total Hours: 15		<b>Semester III</b>		EDUC 200 .....	3	HLTH 201(R/W/S) .....	3	MATH 101 .....	3	PHED 225 .....	2	SOCL 151 .....	3	Dir Elective .....	2	Total Hours: 16		<b>Semester IV</b>		HLTH 213 .....	2	PSYC 142 .....	3	Dir Human Elec .....	3	Dir Sociology Elec .....	3	Directed Elec .....	3	Total Hours: 14	
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ATTR 199 Freshmen Seminar: Athletic Training & Health Promotion.....	3																																																																					
EDUC 200 Computer Technology for Teachers .....	3																																																																					
HLTH 101 Foundations of Health and Sports Medicine Professions.....	3																																																																					
HLTH 201 Personal Health Science .....	3																																																																					
HLTH 210 Community Health and Wellness .....	3																																																																					
HLTH 211 First Aid .....	2																																																																					
HLTH 213 Advanced First Aid .....	2																																																																					
PHED 225 Physical Fitness and Conditioning for Majors .....	2																																																																					
Directed Electives <sup>1</sup> .....	8																																																																					
Directed Sociology Electives .....	6																																																																					
<b>General Education Requirements</b>																																																																						
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>																																																																						
<b>Basic Skills Core</b>	<b>9</b>																																																																					
ENGL 101 English Composition I .....	3																																																																					
MATH 101 Intermediate Algebra (or higher mathematics) .....	3																																																																					
SPCH 143 Speech .....	3																																																																					
<i>The Reading Intensive requirement may be met by HLTH 201 or 210.</i>																																																																						
<i>The Writing and Speaking Intensive requirement may be met by HLTH 201.</i>																																																																						
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>																																																																						
<b>Liberal Education Core</b>	<b>18</b>																																																																					
ENGL 102 English Composition II .....	3																																																																					
LFSC 111 Anatomy and Physiology I.....	2																																																																					
LFSC 111L Anatomy and Physiology Laboratory I.....	1																																																																					
LFSC 112 Anatomy and Physiology .....	2																																																																					
LFSC 112L Anatomy and Physiology Laboratory .....	1																																																																					
PSYC 142 General Psychology .....	3																																																																					
SOCL 151 Principles of Sociology .....	3																																																																					
Directed Humanities Elective – Common Core List .....	3																																																																					
<i>Computer Skills are enhanced by EDUC 200.</i>																																																																						
<i>The Physical Education Fitness/Wellness requirement is met by PHED 225.</i>	<b>62</b>																																																																					

<sup>1</sup> All selections should be based upon General Education graduation requirements, transfer institution/2+2 requirements, and developing career interests of students.

**EDUCATION – MATHEMATICS 4000**  
**A Program Leading to a B.A. or B.S. Degree**

This curriculum is designed for those planning to complete a bachelor's degree leading to licensing as secondary teachers of mathematics. Students must be admitted into the Mathematics Education program and into Student Teaching. These admission qualifications apply to all B.S. education programs and are given on page 8 of the catalog.

		Credit Hours -	BS	BA				
<b>Major Program Requirements<sup>1</sup></b>			<b>91</b>	<b>91</b>				
CSCI 159	C Programming for Scientists and Engineers .....	3		3	<i>Recommended Sequence of Courses for B.S.</i> (This assumes any necessary developmental requirements have been met.)	<i>Recommended Sequence of Courses for B.A.</i> (This assumes any necessary developmental requirements have been met.)		
EDUC 101	Introduction to Teaching .....	1		1				
EDUC 200	Computer Technology for Teachers .....	3		3				
EDUC 218	Psychology of Childhood and Adolescence .....	3		3				
EDUC 290	Initial Experiences in Education .....	3		3				
EDUC 291	Introduction to Exceptionalities .....	3		3				
EDUC 292	Foundations of Education .....	3	3	3				
EDUC 310	Management of Classroom Behavior .....	3		3				
EDUC 372	Teaching in the Inclusive Classroom .....	3		3				
EDUC 401	Teaching in Public Schools .....	12		12				
							<b>Semester I</b>	<b>Semester I</b>
							EDUC 101 .....1	EDUC 101 .....1
							EDUC 200 .....3	EDUC 200 .....3
							ENGL 101 .....3	ENGL 101 .....3
							MATH 118(M) .....5	MATH 118(M) .....5
							PSYC 142 .....3	PSYC 142 .....3
					SPCH 143 .....3	SPCH 143 .....3		
					Total Hours: 18	Total Hours: 18		
					<b>Semester II</b>	<b>Semester II</b>		
MAED 421	Teaching High School Mathematics .....	3		3	EDUC 291 .....3	EDUC 291 .....3		
MATH 119	Calculus with Analytic Geometry II .....	5		5	EDUC 292 .....3	EDUC 292 .....3		
MATH 220	Intermediate Calculus .....	4		4	ENGL 102 .....3	ENGL 102 .....3		
MATH 223	Differential Equations with Linear Algebra .....	4		4	HLTH 211 .....2	HLTH 211 .....2		
MATH 224	Special Projects for Mathematics Majors .....	1		1	MATH 119 .....5	MATH 119 .....5		
MATH 265	Linear Algebra .....	3		3	PFWL 115 .....1	PFWL 115 .....1		
MATH 311	Geometries .....	3		3	Total Hours: 17	Foreign Lang .....4		
MATH 312	Probability and Statistics .....	3		3		Total Hours: 21		
MATH 321	Introduction to Abstract Mathematics .....	3		3	<b>Semester III</b>	<b>Semester III</b>		
MATH 322	Introduction to Analysis .....	3		3	EDUC 218 .....3	EDUC 218 .....3		
MATH 411	Linear Algebra II .....	3		3	EDUC 290(R/W/S) .3	EDUC 290(R/W/S) .3		
MATH 412	Abstract Algebra .....	3		3	MATH 220 .....4	MATH 220 .....4		
MATH 422	Topics in Mathematics .....	3		3	PHIL 212 .....3	PHIL 212 .....3		
MATH 490	Capstone Experience, Mathematics Education .....	3		3	History Elect-Soc	History Elect-Soc		
PHYS 205	Physics for Scientists and Engineers I .....	5		5	Sci Core .....3	Sci Core .....3		
PHYS 206	Physics for Scientists and Engineers II .....	4		4	Total Hours: 16	Foreign Lang .....4		
PHYS 206L	Laboratory for Physics for Scientists and Engineers II .....	1		1		Total Hours: 20		
					<b>Semester IV</b>	<b>Semester IV</b>		
					CSCI 159 .....3	CSCI 159 .....3		
					ERTH 207 .....3	ERTH 207 .....3		
					MATH 223 .....4	MATH 223 .....4		
					MATH 224 .....1	MATH 224 .....1		
					PHYS 205 .....5	PHYS 205 .....5		
					Soc Sci Elec .....3	Soc Sci Elec .....3		
					Total Hours: 19	Total Hours: 19		
					<b>Semester V</b>	<b>Semester V</b>		
					EDUC 310 .....3	EDUC 310 .....3		
					MATH 311 .....3	MATH 311 .....3		
					MATH 312 .....3	MATH 312 .....3		
					PHIL 313 .....3	PHIL 313 .....3		
					PHYS 206 .....4	PHYS 206 .....4		
					PHYS 206L .....1	PHYS 206L .....1		
					Total Hours: 17	Total Hours: 17		

**General Education Requirements**  
 See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.

**Basic Skills Core** 11 11  
 ENGL 101 English Composition I ..... 3 3  
 MATH 118 Calculus with Analytic Geometry I ..... 5 5  
 SPCH 143 Speech ..... 3 3

*The Reading, Writing and Speaking Intensive requirements may be met by EDUC 290.*  
*The Mathematics Intensive requirement may be met by MATH 118.*

*(Continued on the following page)*

<sup>1</sup> The 200 level EDUC courses under Major Program Requirements comprise the Education Department Gateway Core Classes.

<b>Liberal Education Core</b>	<b>31</b>	<b>47</b>
ENGL 102 English Composition II .....	3	3
ERTH 207 World Geography .....	3	3
HLTH 211 First Aid.....	2	2
LFSC 105 Principles of Life Science I .....	3	3
LFSC 105L Principles of Life Science Laboratory I...	1	1
PFWL 115 Concepts in Wellness .....	1	1
PHIL 212 Introduction to Ethics .....	3	3
PHIL 313 Contemporary Ethical Issues .....	3	3
PSYC 142 General Psychology.....	3	3
Foreign Language.....	-	16
Humanities Elective – Common or Broad Core List.....	3	3
History Elective – Social Science Core List .....	3	3
Social Science Elective – Social Science Core List .....	3	3

Computer Skills are enhanced by CSCI 159

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Semester VI	Semester VI
LFSC 105.....3	LFSC 105.....3
LFSC 105L .....1	LFSC 105L .....1
MATH 265 .....3	MATH 265.....3
MATH 321 .....3	MATH 321.....3
MATH 322 .....3	MATH 322.....3
Humanities	Foreign Lang.....4
Common/Broad ..3	Humanities
Total Hours: 16	Common/Broad ...3
	Total Hours: 20
Semester VII	Semester VII
EDUC 372 .....3	EDUC 372 .....3
MAED 421 .....3	MAED 421.....3
MATH 411 .....3	MATH 411.....3
MATH 412 .....3	MATH 412.....3
MATH 422 .....3	MATH 422.....3
Total Hours: 15	Foreign Lang.....4
	Total Hours: 19
Semester VIII	Semester VIII
EDUC 401 .....12	EDUC 401 .....12
MATH 490 .....3	MATH 490.....3
Total Hours: 15	Total Hours: 15

**EDUCATION – MATHEMATICS CONCENTRATION 4602**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This curriculum is designed for those planning to transfer to complete a baccalaureate program leading to licensing as secondary education teachers of mathematics. Students are advised to check with the transfer institution before selecting electives to assure their appropriateness.

	Credit Hours - A.S.	A.A.
<b>Major Program Requirements</b>	<b>30</b>	<b>24</b>
CSCI 159 C Programming for Scientists and Engineers.....	3	3
EDUC 290 Initial Experiences in Education .....	3	3
MATH 119 Calculus with Analytic Geometry II .....	-	5
MATH 220 Intermediate Calculus .....	4	4
MATH 223 Differential Equations with Linear Algebra.....	4	4
MATH 224 Special Projects for Mathematics Majors..	1	1
Electives <sup>1</sup> .....	15	4

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>11</b>	<b>11</b>
ENGL 101 English Composition I .....	3	3
MATH 118 Calculus with Analytic Geometry I.....	5	5
SPCH 143 Speech .....	3	3

*The Reading, Writing and Speaking Intensive requirements may be met by MATH 224.*

*The Mathematics Intensive requirement may be met by MATH 118.*

<b>Liberal Education Core</b>	<b>22-24</b>	<b>28-30</b>
ENGL 102 English Composition II .....	3	3
MATH 119 Calculus with Analytic Geometry II .....	5	-
PFWL 100 Lifetime Fitness/Wellness .....	2	2
PSYC 142 General Psychology .....	3	3
PSYC 201 Developmental Psychology .....	3	3
Laboratory Science Elective – Common Core List <sup>2</sup> ...	3-5	3-5
Humanities Elective – Common Core List .....	3	3
Humanities Elective – Broad Core List .....	-	3
Foreign Language Electives .....	-	8

*Computer Skills are enhanced by CSCI 159.*

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<i>Recommended Sequence of Courses for A.S.</i>	<i>Recommended Sequence of Courses for A.A.</i>
(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
Semester I	Semester I
ENGL 101 .....3 MATH 118(M) .....5 PSYC 142 .....3 SPCH 143 ..... 3 Total Hours: 14	ENGL 101 .....3 MATH 118(M) .....5 SPCH 143 .....3 Foreign Lang ..... 4 Total Hours: 15
Semester II	Semester II
ENGL 102 .....3 MATH 119 .....5 PFWL 100 .....2 Hum Elec..... 3 Lab Sci Elec ..... 3-5 Total Hours:16-18	ENGL 102 .....3 MATH 119 .....5 Foreign Lang .....4 Lab Sci Elec ..... 3-5 Total Hours:15-17
Semester III	Semester III
CSCI 159 .....3 EDUC 290 .....3 MATH 220 .....4 PSYC 201 .....3 Elective..... 3 Total Hours: 16	CSCI 159 .....3 EDUC 290 .....3 MATH 220 .....4 PSYC 142 .....3 Humanities Elec ..... 3 Total Hours: 16
Semester IV	Semester IV
MATH 223 .....4 MATH 224(R/W/S) .1 Electives ..... 12 Total Hours: 17	MATH 223 .....4 MATH 224(R/W/S) .1 PFWL 100 .....2 PSYC 201 .....3 Humanities Elec .....3 Elective..... 4 Total Hours: 17

<sup>1</sup> Students should check specific requirements of baccalaureate institution.

<sup>2</sup> Laboratory science electives are to be chosen from the following. Students wishing to concentrate on one specific area in science may choose 200-level courses in that area the second year.

- CHEM 105/105L General Chemistry I and Laboratory
- CHEM 106/106L General Chemistry II and Laboratory
- LFSC 105/105L Principles of Life Science I and Laboratory
- LFSC 106/106L Principles of Life Science II and Laboratory
- PHYS 105/105L General Physics I and Laboratory
- PHYS 106/106L General Physics II and Laboratory
- PHYS 205 Physics for Scientists and Engineers I
- PHYS 206/206L Physics for Scientists and Engineers II and Laboratory



**EDUCATION – MUSIC CONCENTRATION 2452/2453**  
**Teaching License Coverage: Grades 7-12 (Secondary), Grades K-12 (All Grade)**  
**Transfer Program Leading to the A.S. Degree**

This curriculum is designed for students who wish to teach music. Upon completion of this program, students will be eligible to transfer to baccalaureate institutions in either a secondary education program leading to licensing as a teacher of choral, general, or instrumental music in grades 7 through 12 or an all grade education program leading to licensing as a teacher of choral, general, or instrumental music in grades 1 through 12.

	<b>Credit Hours</b>
<b>Major Program Requirements</b>	<b>39-43</b>
EDUC 290 Initial Experiences in Education <sup>1</sup> .....	3
MUSM 101 Beginning Piano Class -or- Equivalent <sup>2</sup> .....	1
MUSM 102 Intermediate Piano Class -or- Equivalent <sup>2</sup> .....	1
MUSM 113 Music Skills I .....	1
MUSM 114 Music Skills II .....	1
MUSM 115 Music Theory I .....	3
MUSM 116 Music Theory II .....	3
MUSM 150 Introduction to Music History .....	2
MUSM 151 Introduction to World Music .....	2
MUSM 201 Advanced Piano Class I -or- Equivalent <sup>2</sup> .....	1
MUSM 202 Advanced Piano Class II -or- Equivalent <sup>2</sup> .....	1
MUSM 213 Music Skills III .....	1
MUSM 214 Music Skills IV .....	1
MUSM 215 Music Theory III .....	3
MUSM 216 Music Theory IV .....	3
Private Music Lessons in Major Area .....	6
Private Music Lesson and Recital .....	2
Music Ensembles .....	4-8

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition I .....	3
MATH 101 Intermediate Algebra -or-	
MATH 102 College Algebra .....	3
SPCH 143 Speech .....	3

*The Reading, Writing and Speaking Intensive requirements may be met by MUSM 216.*

*The Mathematics Intensive requirement may be met by MATH 102 or a second mathematics course or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>	<b>21</b>
ENGL 102 English Composition II <sup>3</sup> .....	3
PFWL 100 Lifetime Fitness/Wellness .....	2
PSYC 142 General Psychology .....	3
Laboratory Science Elective – Common Core List .....	4
Humanities Elective – Common Core List .....	3
Social Science Elective – Core List .....	3
Humanities or Science/Mathematics Elective – Broad Core List .....	3

*The Computer Skills requirement is met by Computers Across the Curriculum.*

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<i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
ENGL 101 .....	3
MUSM 101/Equiv.....	1
MUSM 113 .....	1
MUSM 115 .....	3
PFWL 100 .....	2
PSYC 142 .....	3
Music Ensemble.....	1-2
Music Lesson/Major Area .....	2
Total Hours: 16-17	
<b>Semester II</b>	
ENGL 102 .....	3
MUSM 102/Equiv.....	1
MUSM 114 .....	1
MUSM 116 .....	3
SPCH 143 .....	3
Humanities Elec.....	3
Music Ensemble.....	1-2
Music Lesson/Major Area .....	2
Total Hours: 17-18	
<b>Semester III</b>	
EDUC 290 .....	3
MATH 101/102.....	3
MUSM 150 .....	2
MUSM 201/Equiv.....	1
MUSM 213 .....	1
MUSM 215 .....	3
Music Ensemble.....	1-2
Music Lesson/Major Area .....	2
Soc Science Elec.....	3
Total Hours: 19-20	
<b>Semester IV</b>	
MUSM 151 .....	2
MUSM 202/Equiv.....	1
MUSM 214 .....	1
MUSM 216(R/W/S) .....	3
Hum/Sci/Math Elec.....	3
Lab Science Elec.....	4
Music Ensemble.....	1-2
Lesson+Recital Major Area .....	2
Total Hours: 17-18	

<sup>1</sup> Students should confer with a Music Education advisor at their intended school of transfer to determine which of the following should also be taken: EDUC 200 Introduction to Classroom Computing, EDUC 291 Introduction to Exceptionalities, EDUC 292 Foundations of Education.

<sup>2</sup> Not required for piano majors. See explanation of equivalents under course descriptions.

<sup>3</sup> Students transferring to Indiana University should substitute ENGL 210 Advanced Expository Writing for ENGL 102.

**EDUCATION – PHYSICAL EDUCATION CONCENTRATION 3104**

**Teaching License Coverage: Grades K-12**

**A Two-Year Transfer Program Leading to the A.S. Degree**

This program is designed for Physical Education students who wish to teach in grades K-12. Upon completion of this program, students may transfer to their selected baccalaureate institution in programs preparing for the Indiana State Department of Education licensing options for teaching physical education.

	<b>Credit Hours</b>																																																																					
<b>Major Program Requirements</b>	<b>36</b>																																																																					
ATTR 209 Introduction to Athletic Training .....	3	<p align="center"><i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)</p> <table border="1"> <tr> <th align="left" colspan="2">Semester I</th> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>PHED 150 .....</td> <td align="right">3</td> </tr> <tr> <td>PHED 225 .....</td> <td align="right">2</td> </tr> <tr> <td>PSYC 142 .....</td> <td align="right">3</td> </tr> <tr> <td>Dir PHED Activity.....</td> <td align="right">1</td> </tr> <tr> <td>Social Science Elec... ..</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> <tr> <th align="left" colspan="2">Semester II</th> </tr> <tr> <td>EDUC 292 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 102 .....</td> <td align="right">3</td> </tr> <tr> <td>PSYC 201 .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td>Dir PHED Activity... ..</td> <td align="right">1</td> </tr> <tr> <td>Hum/Sci/Math Elective.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <th align="left" colspan="2">Semester III</th> </tr> <tr> <td>EDUC 290(R/W/S) .....</td> <td align="right">3</td> </tr> <tr> <td>HLTH 211 .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 111 .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 111L.....</td> <td align="right">1</td> </tr> <tr> <td>MATH 101 .....</td> <td align="right">3</td> </tr> <tr> <td>PHED 202, 203, or 204 .....</td> <td align="right">2</td> </tr> <tr> <td>HLTH/PHED Elec .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <th align="left" colspan="2">Semester IV</th> </tr> <tr> <td>ATTR 209 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 112 .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 112L.....</td> <td align="right">1</td> </tr> <tr> <td>PHED 210(R/W) .....</td> <td align="right">3</td> </tr> <tr> <td>Directed Elective.....</td> <td align="right">3</td> </tr> <tr> <td>Swimming Elective....</td> <td align="right">1</td> </tr> <tr> <td>Humanities Elec .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> </table>	Semester I		ENGL 101 .....	3	PHED 150 .....	3	PHED 225 .....	2	PSYC 142 .....	3	Dir PHED Activity.....	1	Social Science Elec... ..	3	Total Hours: 15		Semester II		EDUC 292 .....	3	ENGL 102 .....	3	PSYC 201 .....	3	SPCH 143 .....	3	Dir PHED Activity... ..	1	Hum/Sci/Math Elective.....	3	Total Hours: 16		Semester III		EDUC 290(R/W/S) .....	3	HLTH 211 .....	2	LFSC 111 .....	2	LFSC 111L.....	1	MATH 101 .....	3	PHED 202, 203, or 204 .....	2	HLTH/PHED Elec .....	3	Total Hours: 16		Semester IV		ATTR 209 .....	3	LFSC 112 .....	2	LFSC 112L.....	1	PHED 210(R/W) .....	3	Directed Elective.....	3	Swimming Elective....	1	Humanities Elec .....	3	Total Hours: 16	
Semester I																																																																						
ENGL 101 .....	3																																																																					
PHED 150 .....	3																																																																					
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Total Hours: 16																																																																						
EDUC 290 Initial Experiences in Education .....	3																																																																					
EDUC 292 Foundations of Education .....	3																																																																					
HLTH 211 First Aid .....	2																																																																					
LFSC 112 Anatomy and Physiology II .....	2																																																																					
LFSC 112L Anatomy and Physiology Laboratory II.....	1																																																																					
PHED 150 Foundations of Physical Education.....	3																																																																					
PHED 202 Teaching of Individual and Dual Sports -or-																																																																						
PHED 203 Teaching of Team Sports -or-																																																																						
PHED 204 Teaching of Lifetime Sports and Recreational Activities .....	2																																																																					
PHED 210 Physical Education for the Elementary School .....	3																																																																					
PHED 225 Physical Fitness and Conditioning for Majors .....	2																																																																					
Directed Physical Education Activity (PHED) Electives .....	2																																																																					
Directed HLTH/PHED Electives <sup>1</sup> .....	3																																																																					
Swimming Elective .....	1																																																																					
Directed Electives <sup>1</sup> .....	3																																																																					
Social Science Elective <sup>1</sup> .....	3																																																																					
<b>General Education Requirements</b>																																																																						
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>																																																																						
<b>Basic Skills Core</b>	<b>9</b>																																																																					
ENGL 101 English Composition I .....	3																																																																					
MATH 101 Intermediate Algebra (or higher mathematics) .....	3																																																																					
SPCH 143 Speech .....	3																																																																					
<i>The Reading and Writing Intensive requirements may be met by EDUC 290 or PHED 210.</i>																																																																						
<i>The Speaking Intensive requirement may be met by EDUC 290.</i>																																																																						
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>																																																																						
<b>Liberal Education Core</b>	<b>18</b>																																																																					
ENGL 102 English Composition II .....	3																																																																					
LFSC 111 Anatomy and Physiology I.....	2																																																																					
LFSC 111L Anatomy and Physiology Laboratory I.....	1																																																																					
PSYC 142 General Psychology .....	3																																																																					
PSYC 201 Developmental Psychology .....	3																																																																					
Humanities Elective – Common Core List <sup>1</sup> .....	3																																																																					
Humanities or Science/Mathematics Elective – Broad Core List <sup>1</sup> .....	3																																																																					
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>																																																																						
<i>The Physical Education Fitness/Wellness requirement may be met by PHED 225.</i>	<b>63</b>																																																																					

<sup>1</sup> All selections should be based upon General Education graduation requirements, transfer institution/2+2 requirements, and developing career interests of students.

**EDUCATION – SCIENCE 4001**  
**A Program Leading to a B.S. Degree**

This curriculum is designed for those planning to complete a bachelor’s degree leading to licensing a secondary education teacher of science. Licensure will be in a content area listed below. Students must be admitted into the Science Education program and into Student Teaching. These admission qualifications apply to all B.S. education programs and are given on [page 8](#) of the catalog.

	<b>Credit Hours</b>
<b>Major Program Requirements<sup>1</sup></b>	<b>73-92</b>
CHEM 106 General Chemistry II .....	3
CHEM 106L General Chemistry Qualitative Analysis Laboratory .....	2
EDUC 101 Introduction to Teaching .....	1
EDUC 200 Computer Technology for Teachers .....	3
EDUC 218 Psychology of Childhood and Adolescence .....	3
EDUC 290 Initial Experiences in Education .....	3
EDUC 291 Introduction to Exceptionalities .....	3
EDUC 292 Foundations of Education .....	3
EDUC 310 Management of Classroom Behavior and/or	
EDUC 372 Teaching in the Inclusive Classroom .....	3-6
EDUC 401 Teaching in the Public Schools .....	12
MATH 116 Survey of Calculus II -or-	
MATH 119 Calculus with Analytic Geometry II.....	3-5
SCED 421 The Teaching of Science .....	3
SCED 490 Capstone Experience, General Science Education .....	3
Courses in Concentration Areas .....	28-42

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9-11</b>
ENGL 101 English Composition I.....	3
MATH 115 Survey of Calculus I -or-	
MATH 118 Calculus with Analytic Geometry I.....	3-5
SPCH 143 Speech .....	3

*The Reading, Writing and Speaking Intensive requirements may be met by EDUC 290.*

*The Mathematics Intensive requirement may be met by MATH 115 or higher.*

<b>Liberal Education Core</b>	<b>36</b>
CHEM 105 General Chemistry I .....	3
CHEM 105L General Chemistry Quantitative Analysis Laboratory .....	2
ENGL 102 English Composition II .....	3
ERTH 207 World Geography .....	3
HLTH 211 First Aid .....	2
LFSC 105 Principles of Life Science I .....	3
LFSC 105L Principles of Life Science Laboratory I.....	1
PFWL 115 Concepts in Wellness .....	1
PHIL 212 Introduction to Ethics .....	3
PHIL 313 Contemporary Ethical Issues .....	3
PSYC 142 General Psychology .....	3
History Elective - Social Science Core List .....	3
Humanities Elective - Common Core List.....	3
Social Science Elective - Social Science Core List .....	3

*(Continued on the following page)*

<sup>1</sup> The 200 level EDUC courses under Major Program Requirements comprise the Education Department Gateway Core Classes.

<b>Chemistry Concentration 4002</b>	<b>32</b>
CHEM 204 Elementary Quantitative Analysis .....	4
CHEM 315 Organic Chemistry I .....	3
CHEM 315L Organic Chemistry Laboratory I .....	2
CHEM 316 Organic Chemistry II .....	3
CHEM 316L Organic Chemistry II Laboratory .....	2
CHEM 325 Introductory Physical Chemistry .....	4
CHEM 426 Biochemistry .....	4
PHYS 205 Physics for Scientists and Engineers I .....	5
PHYS 206 Physics for Scientists and Engineers II .....	4
PHYS 206L Laboratory for Physics for Scientists and Engineers II .....	1
<b>Earth and Space Science Concentration 4003</b>	<b>35</b>
ERTH 111 Introduction to Remote Sensing .....	3
ERTH 112 Geographic Information Systems (GIS) .....	3
ERTH 115 Physical Geology .....	3
ERTH 115L Physical Geology Laboratory .....	2
ERTH 204 Oceanography .....	3
ERTH 208 Principles of Conservation .....	3
ERTH 210 General Astronomy .....	3
ERTH 221 Meteorology .....	3
ERTH 304 Soil Science .....	4
ERTH 314 Evolution of the Earth .....	3
ERTH 314L Evolution of the Earth Laboratory .....	1
ERTH 316 The Rock Forming Minerals .....	3
ERTH 316L The Rock Forming Minerals Laboratory .....	1
<b>Life Science Concentration 4004</b>	<b>42</b>
CHEM 315 Organic Chemistry I .....	3
CHEM 315L Organic Chemistry Laboratory I .....	2
LFSC 106 Principles of Life Science II .....	3
LFSC 106L Principles of Life Science Laboratory II .....	1
LFSC 211 Human Systems I: Anatomy & Physiology .....	3
LFSC 211L Human Systems I: Anatomy & Physiology Laboratory .....	1
LFSC 212 Human Systems II: Anatomy & Physiology .....	3
LFSC 212L Human Systems II: Anatomy & Physiology Laboratory .....	1
LFSC 220 Molecular Biology .....	3
LFSC 220L Laboratory in Molecular Biology .....	2
LFSC 230 General Microbiology .....	2
LFSC 230L General Microbiology Laboratory .....	2
LFSC 308 Genetics .....	4
LFSC 318 Developmental Biology .....	3
LFSC 423 Ecology and Evolution .....	4
PHYS 105 General Physics I .....	4
PHYS 105L General Physics Laboratory I .....	1

*(Continued on the following page)*

<b>Physical Science Concentration 4005</b>	<b>32</b>
CHEM 315 Organic Chemistry I .....	3
CHEM 315L Organic Chemistry Laboratory I .....	2
CHEM 316 Organic Chemistry II .....	3
CHEM 316L Organic Chemistry Laboratory II .....	2
ERTH 115 Physical Geology .....	3
ERTH 115L Physical Geology Laboratory .....	2
PHYS 205 Physics for Scientists and Engineers I .....	5
PHYS 206 Physics for Scientists and Engineers II .....	4
PHYS 206L Laboratory for Physics for Scientists and Engineers II .....	1
PHYS 300 Physics III .....	3
PHYS 300L Advanced Physics Lab .....	1
PHYS 305 Statics for the Physical Sciences .....	3

<b>Physics Concentration 4006</b>	<b>28</b>
PHYS 205 Physics for Scientists and Engineers I .....	5
PHYS 206 Physics for Scientists and Engineers II .....	4
PHYS 206L Laboratory for Physics for Scientists and Engineers II .....	1
PHYS 300 Physics III .....	3
PHYS 300L Advanced Physics Lab .....	1
PHYS 306 Dynamics for the Physical Sciences .....	3
PHYS 317 Linear Circuits for the Physical Sciences .....	3
PHYS 317L Linear Circuits for the Physical Sciences Laboratory .....	1
PHYS 335 Thermodynamics for the Physical Sciences .....	3
PHYS 366 Digital Systems for the Physical Sciences .....	3
PHYS 366L Digital Systems for the Physical Sciences Laboratory .....	1

**Recommended Sequence of Courses for Concentration Areas follow: (Each sequence assumes any necessary developmental requirements have been met.)**

CHEMISTRY CONCENTRATION 4002	EARTH+SPACE SCIENCE CONC 4003	LIFE SCIENCE CONCENTRATION 4004	PHYSICAL SCIENCE CONC 4005	PHYSICS CONCENTRATION 4006
<b>Semester I</b>	<b>Semester I</b>	<b>Semester I</b>	<b>Semester I</b>	<b>Semester I</b>
CHEM 105 ..... 3	CHEM 105 ..... 3	CHEM 105 ..... 3	CHEM 105 ..... 3	CHEM 105 ..... 3
CHEM 105L ..... 2	CHEM 105L ..... 2	CHEM 105L ..... 2	CHEM 105L ..... 2	CHEM 105L ..... 2
EDUC 101 ..... 1	EDUC 101 ..... 1	EDUC 101 ..... 1	EDUC 101 ..... 1	EDUC 101 ..... 1
EDUC 200 ..... 3	EDUC 200 ..... 3	EDUC 200 ..... 3	EDUC 200 ..... 3	EDUC 200 ..... 3
ENGL 101 ..... 3	ENGL 101 ..... 3	ENGL 101 ..... 3	ENGL 101 ..... 3	ENGL 101 ..... 3
MATH 118 ..... 5	ERTH 115 ..... 3	LFSC 105 ..... 3	MATH 118 ..... 5	MATH 118 ..... 5
Total Hours: 17	ERTH 115L ..... 2	LFSC 105L ..... 1	Total Hours: 17	Total Hours: 17
	Total Hours: 17	Total Hours: 16		
<b>Semester II</b>	<b>Semester II</b>	<b>Semester II</b>	<b>Semester II</b>	<b>Semester II</b>
CHEM 106 ..... 3	CHEM 106 ..... 3	CHEM 106 ..... 3	CHEM 106 ..... 3	CHEM 106 ..... 3
CHEM 106L ..... 2	CHEM 106L ..... 2	CHEM 106L ..... 2	CHEM 106L ..... 2	CHEM 106L ..... 2
ENGL 102 ..... 3	EDUC 292 ..... 3	ENGL 102 ..... 3	MATH 119 ..... 5	MATH 119 ..... 5
MATH 119 ..... 5	ENGL 102 ..... 3	HLTH 211 ..... 2	PHYS 205 ..... 5	PHYS 205 ..... 5
PSYC 142 ..... 3	PSYC 142 ..... 3	HLSC 106 ..... 3	PSYC 142 ..... 3	PSYC 142 ..... 3
Total Hours: 16	SPCH 143 ..... 3	LFSC 106L ..... 1	Total Hours: 18	Total Hours: 18
	Total Hours: 17	PFWL 115 ..... 1		
		PSYC 142 ..... 3		
		Total Hours: 18		
<b>Semester III</b>	<b>Semester III</b>	<b>Semester III</b>	<b>Semester III</b>	<b>Semester III</b>
CHEM 315 ..... 3	EDUC 218 ..... 3	EDUC 218 ..... 3	EDUC 218 ..... 3	EDUC 218 ..... 3
CHEM 315L ..... 2	ERTH 111 ..... 3	EDUC 292 ..... 3	EDUC 292 ..... 3	EDUC 292 ..... 3
EDUC 218 ..... 3	ERTH 204 ..... 3	LFSC 230 ..... 2	ENGL 102 ..... 3	ENGL 102 ..... 3
EDUC 292 ..... 3	ERTH 210 ..... 3	LFSC 230L ..... 2	PHYS 206 ..... 4	PHYS 206 ..... 4
SPCH 143 ..... 3	MATH 115 ..... 3	MATH 115 ..... 3	PHYS 206L ..... 1	PHYS 206L ..... 1
Total Hours: 14	Total Hours: 15	SPCH 143 ..... 3	SPCH 143 ..... 3	SPCH 143 ..... 3
		Total Hours: 16	Total Hours: 17	Total Hours: 17

*(Continued on the following page)*

<b>CHEMISTRY CONCENTRATION 4002 (Continued)</b>	<b>EARTH+SPACE SCIENCE CONC 4003 (Continued)</b>	<b>LIFE SCIENCE CONCENTRATION 4004 (Continued)</b>	<b>PHYSICAL SCIENCE CONC 4005 (Continued)</b>	<b>PHYSICS CONCENTRATION 4006 (Continued)</b>
<b>Semester IV</b>	<b>Semester IV</b>	<b>Semester IV</b>	<b>Semester IV</b>	<b>Semester IV</b>
CHEM 316 ..... 3	EDUC 290 ..... 3	EDUC 290..... 3	EDUC 290 ..... 3	EDUC 290 ..... 3
CHEM 316L ..... 2	EDUC 291 ..... 3	EDUC 291..... 3	EDUC 291 ..... 3	EDUC 291 ..... 3
EDUC 290 ..... 3	ERTH 112 ..... 3	LFSC 220 ..... 3	PHYS 300 ..... 3	HLTH 211 ..... 2
EDUC 291 ..... 3	ERTH 221 ..... 3	LFSC 220L ..... 2	PHYS 300L ..... 1	PFWL 115 ..... 1
PHYS 205..... 5	MATH 116 ..... 3	MATH 116 ..... 3	PHYS 306 ..... 3	PHYS 300 ..... 3
Total Hours: 16	Total Hours: 15	PHYS 105 ..... 4	Total Hours: 13	PHYS 300L ..... 1
		PHYS 105L..... 1		PHYS 306 ..... 3
		Total Hours: 19		Total Hours: 16
<b>Semester V</b>	<b>Semester V</b>	<b>Semester V</b>	<b>Semester V</b>	<b>Semester V</b>
CHEM 204 ..... 4	EDUC 310 ..... 3	CHEM 315 ..... 3	CHEM 315 ..... 3	LFSC 105 ..... 3
CHEM 325 ..... 4	ERTH 208 ..... 3	CHEM 315L ..... 2	CHEM 315L..... 2	LFSC 105L..... 1
LFSC 105 ..... 3	HLTH 211 ..... 2	LFSC 211 ..... 3	EDUC 310 ..... 3	PHIL 212 ..... 3
LFSC 105L ..... 1	LFSC 105 ..... 3	LFSC 211L ..... 1	LFSC 105 ..... 3	PHYS 317 ..... 3
PHYS 206 ..... 4	LFSC 105L ..... 1	LFSC 318 ..... 3	LFSC 105L ..... 1	PHYS 317L ..... 1
PHYS 206L ..... 1	PFWL 115 ..... 1	PHIL 212 ..... 3	PHIL 212 ..... 3	PHYS 366 ..... 3
Total Hours: 17	PHIL 212 ..... 3	History Elective ..... 3	History Elective..... 3	PHYS 366L ..... 1
	Total Hours: 16	Total Hours: 18	Total Hours: 18	Total Hours: 15
<b>Semester VI</b>	<b>Semester VI</b>	<b>Semester VI</b>	<b>Semester VI</b>	<b>Semester VI</b>
CHEM 426 ..... 4	ERTH 207 ..... 3	ERTH 207 ..... 3	CHEM 316 ..... 3	ERTH 207 ..... 3
ERTH 207 ..... 3	ERTH 304 ..... 4	LFSC 212 ..... 3	CHEM 316L..... 2	PHIL 313 ..... 3
HLTH 211 ..... 2	ERTH 314 ..... 3	LFSC 212L ..... 1	ERTH 115 ..... 3	PHYS 335 ..... 3
PFWL 115 ..... 1	ERTH 314L ..... 1	LFSC 308 ..... 4	ERTH 115L ..... 2	History Elective ..... 3
PHIL 212 ..... 3	PHIL 313 ..... 3	PHIL 313 ..... 3	ERTH 207 ..... 3	Total Hours: 12
History Elective ..... 3	History Elective ..... 3	Humanities Elective.. 3	PHIL 313 ..... 3	
Total Hours: 16	Total Hours: 17	Total Hours: 17	Total Hours: 16	
<b>Semester VII</b>	<b>Semester VII</b>	<b>Semester VII</b>	<b>Semester VII</b>	<b>Semester VII</b>
EDUC 310 -or- 372... 3	EDUC 372 ..... 3	EDUC 310..... 3	EDUC 372 ..... 3	EDUC 310 ..... 3
PHIL 313 ..... 3	ERTH 316 ..... 3	EDUC 372..... 3	HLTH 211 ..... 2	EDUC 372 ..... 3
SCED 421 ..... 3	ERTH 316L ..... 1	LFSC 423 ..... 4	PFWL 115 ..... 1	SCED 421 ..... 3
Humanities Elective .. 3	SCED 421 ..... 3	SCED 421 ..... 3	SCED 421..... 3	Humanities Elective .. 3
Social Science Elec.. 3	Humanities Elective .. 3	Social Science Elec.. 3	Humanities Elective... 3	Social Science Elec . 3
Total Hours: 15	Social Science Elec . 3	Total Hours: 16	Social Science Elec... 3	Total Hours: 15
	Total Hours: 16		Total Hours: 15	
<b>Semester VIII</b>	<b>Semester VIII</b>	<b>Semester VIII</b>	<b>Semester VIII</b>	<b>Semester VIII</b>
EDUC 401 ..... 12	EDUC 401 ..... 12	EDUC 401..... 12	EDUC 401 ..... 12	EDUC 401 ..... 12
SCED 490..... 3	SCED 490 ..... 3	SCED 490 ..... 3	SCED 490..... 3	SCED 490..... 3
Total Hours: 15	Total Hours: 15	... Total Hours: 15	Total Hours: 15	.. Total Hours: 15
<b>Total Credit Hrs.... 126</b>	<b>Total Credit Hrs.... 128</b>	<b>Total Credit Hrs .... 135</b>	<b>Total Credit Hrs 129</b>	<b>Total Credit Hrs.... 125</b>

Computer Skills are enhanced by EDUC 200.

**Total Credit Hours: 125-135**

**EDUCATION – SECONDARY CONCENTRATION 1350**  
**Teaching License Coverage: Grades 9-12**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

Students selecting this curriculum will be undertaking the first two years of a four-year degree program leading to licensing as a teacher of subject matter in the secondary school. While there is a core of courses required in this curriculum, students must also choose a minimum of twelve (12) credit hours of subject area course work. These subject area courses include (with VU division area) agriculture, earth sciences, life science, mathematics, and physics (Science and Mathematics); art, English, modern foreign language, family and consumer sciences, journalism, economics, history, political science, psychology, and sociology (Humanities/Social Science). See [page 201](#) for a complete listing of secondary education subject area concentrations.

	Credit Hours	<i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)
<b>Major Program Requirements</b>	<b>35-37</b>	
EDUC 200 Computer Technology for Teachers .....	3	
EDUC 290 Initial Experiences in Education .....	3	
EDUC 291 Introduction to Exceptionalities .....	3	
EDUC 292 Foundations of Education .....	3	
ENGL 250 English Grammar .....	3	
PSYC 142 General Psychology .....	3	
Psychology Elective <sup>1</sup> .....	3-4	
Science or Mathematics Elective .....	3	
Electives .....	11-12	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by EDUC 290. The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>	<b>20</b>	
ENGL 102 English Composition II .....	3	
HIST 139 American History I .....	3	
HIST 140 American History II .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
Laboratory Science Elective – Common Core List .....	3	
Literature Elective – Common Core List .....	3	
Literature Elective – Broad Core List .....	3	
<i>Computer Skills are enhanced by EDUC 200.</i>		
	<b>64-66</b>	
<b>Semester I</b>		
EDUC 200 .....	3	
ENGL 101 .....	3	
HIST 139 .....	3	
PSYC 142 .....	3	
Lab Science Elec .....	3	
Total Hours:	15	
<b>Semester II</b>		
ENGL 102 .....	3	
HIST 140 .....	3	
SPCH 143/148 .....	3	
Electives .....	6	
Total Hours:	15	
<b>Semester III</b>		
EDUC 290(R/W/S) .....	3	
EDUC 291 .....	3	
MATH 101 .....	3	
PFWL 100 .....	2	
Psychology Elec .....	3-4	
Literature Elec .....	3	
Total Hours:	17-18	
<b>Semester IV</b>		
ENGL 250 .....	3	
EDUC 292 .....	3	
Literature Elec .....	3	
Science/Math Elec .....	3	
Electives .....	5-6	
Total Hours:	17-18	

<sup>1</sup> To be chosen from the following: PSYC 201 Developmental Psychology, or PSYC 242 Educational Psychology. An optional 1-hour laboratory course (EDUC 242L) is available for students transferring to baccalaureate institutions requiring field experience in addition to the lecture content of Education Psychology.

**EDUCATION – SPECIAL EDUCATION CONCENTRATION 1252**  
**Teaching License Coverage: Grades K-12**  
**A Two-Year Transfer Program Leading to the A.S. Degree**  
(PENDING ICHE APPROVAL FOR EXTENSION TO JASPER CAMPUS)

Students selecting this curriculum will complete the first two years of a four-year program leading to licensing as a teacher of special education. The students' concentration in two areas of exceptionality, as required in a special education curriculum, will be pursued at a transfer institution. Graduates of this two-year program are qualified to work as teacher aides in special education classes.

	<b>Credit Hours</b>		
<b>Major Program Requirements</b>	<b>34-35</b>		
EDUC 101 Introduction to Education .....	1	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester I</b></p> <hr style="border: 1px solid black;"/> <p>EDUC 101 .....1  EDUC 200 .....3  ENGL 101 .....3  LFSC 100 .....4  PSYC 142 .....3  SPCH 143/148..... 3  Total Hours: 17</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester II</b></p> <hr style="border: 1px solid black;"/> <p>EDUC 291 .....3  ENGL 102 .....3  HIST 139/140 .....3  MATH 112(M) .....4  MUSM 225 ..... 3  Total Hours: 16</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester III</b></p> <hr style="border: 1px solid black;"/> <p>EDUC 290(R/W/S) .....3  EDUC 292 .....3  LITR 240 .....3  PFWL 100 .....2  PHED 210 ..... 3  PSYC 242 ..... 3-4  Total Hours:17-18</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester IV</b></p> <hr style="border: 1px solid black;"/> <p>EDUC 293 .....3  HIST 236 .....3  LITR 220/221 .....3  PSYC 201 .....3  Art Elective ..... 3  Total Hours: 15</p>	
EDUC 200 Computer Technology for Teachers .....	3		
EDUC 290 Initial Experiences in Education .....	3		
EDUC 291 Introduction to Exceptionalities .....	3		
EDUC 292 Foundations of Education .....	3		
EDUC 293 Practicum in Special Education .....	3		
HIST 236 World Civilization II .....	3		
MUSM 225 Music in the Elementary Classroom .....	3		
PHED 210 Physical Education for the Elementary School .....	3		
PSYC 201 Developmental Psychology .....	3		
PSYC 242 Educational Psychology <sup>1</sup> .....	3-4		
Art Elective <sup>2</sup> .....	3		
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b>	<b>10</b>		
ENGL 101 English Composition I .....	3		
MATH 112 Mathematics for Elementary Teachers I .....	4		
SPCH 143 Speech -or-			
SPCH 148 Interpersonal Communication .....	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by EDUC 290. The Mathematics Intensive requirement may be met by MATH 112.</i>			
<b>Liberal Education Core</b>	<b>21</b>		
ENGL 102 English Composition II .....	3		
HIST 139 American History I -or-			
HIST 140 American History II .....	3		
LFSC 100 Human Biology .....	4		
LITR 220 Introduction to World Literature I -or-			
LITR 221 Introduction to World Literature II .....	3		
LITR 240 Children's Literature .....	3		
PFWL 100 Lifetime Fitness/Wellness .....	2		
PSYC 142 General Psychology .....	3		
<i>Computer Skills are enhanced by EDUC 200. _____</i>			
	<b>65-66</b>		

<sup>1</sup> An optional 1-hour laboratory course (EDUC 242L) is available for students transferring to baccalaureate institutions requiring field experience in addition to the lecture content of Education Psychology.

<sup>2</sup> ARTT 104 Design in Materials or ARTT 110 Art Appreciation recommended.



**EDUCATION – SPECIAL EDUCATION, MILD INTERVENTION 1000**  
**A Program Leading to a B.S. Degree**

The undergraduate program in Special Education is a course of study leading to a Bachelor of Science degree and a standard Indiana license in Exceptional Needs: Mild Interventions, Elementary (learning disabilities, emotional disabilities and mild mental disabilities) and/or the Generalist License (*standard Indiana license in Elementary Education K-6*).

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>91</b>	
EDUC 101 Introduction to Education .....	1	
EDUC 200 Computer Technology for Teachers.....	3	
EDUC 242 Educational Psychology <sup>1</sup> .....	3	
EDUC 290 Initial Experiences in Education .....	3	
EDUC 291 Introduction to Exceptionalities .....	3	
EDUC 292 Foundations of Education .....	3	
EDUC 293 Practicum in Special Education .....	3	
EDUC 310 Management of Classroom Behavior.....	3	
EDUC 312 Organization and Administration of Assistive Technology .....	3	
EDUC 330 Teaching Methods and Materials .....	3	
EDUC 340 Learning Disabilities .....	3	
EDUC 342 Emotional Disabilities .....	3	
EDUC 344 Mild Mental Disabilities .....	3	
EDUC 346 Autism Spectrum Disorders .....	3	
EDUC 350 Evaluation and Exceptionality: Curriculum and Assessment .....	3	
EDUC 352 Collaboration and Partnering: Community, Family and Paraprofessionals .....	3	
EDUC 360 The Teaching of Elementary Social Studies .....	3	
EDUC 361 The Teaching of Elementary Science .....	3	
EDUC 362 The Teaching of Elementary Language Arts and Reading .....	3	
EDUC 363 The Teaching of Elementary School Mathematics .....	2	
EDUC 364 Corrective Reading in the Elementary School .....	3	
EDUC 372 Teaching in the Inclusive Classroom .....	3	
EDUC 374 Classroom Assessment.....	3	
EDUC 477 Supervised Student Teaching in Elementary Education .....	6	
EDUC 492 Supervised Student Teaching in Mild Intervention .....	6	
EDUC 493 Senior Capstone Experience in Education .....	3	
MATH 212 Mathematics for Elementary Teachers II .....	4	
MUSM 225 Music in the Elementary Classroom .....	3	
PHED 210 Physical Education for the Elementary School .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>10</b>	
ENGL 101 English Composition I .....	3	
MATH 112 Mathematics for Elementary Teachers I .....	4	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by EDUC 290 or HUMN 245 or SOCL 245.</i>		
<i>The Mathematics Intensive requirement may be met by MATH 112.</i>		
<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)		
<b>Semester I</b>		
EDUC 101 .....	1	
EDUC 200 .....	3	
ENGL 101 .....	3	
LFSC 100 .....	4	
PSYC 142 .....	3	
SPCH 143/148.....	3	
Total Hours:	17	
<b>Semester II</b>		
ARTT 110 .....	3	
EDUC 291 .....	3	
EDUC 292 .....	3	
ENGL 102 .....	3	
LITR 220/221 .....	3	
MUSM 225.....	3	
Total Hours:	18	
<b>Semester III</b>		
EDUC 242 .....	3	
EDUC 290(R/W/S) .....	3	
HIST 139/140 .....	3	
MATH 112 .....	4	
PFWL 115 .....	1	
PHED 210 .....	3	
Total Hours:	17	
<b>Semester IV</b>		
HIST 236 .....	3	
HLTH 211 .....	2	
HUMN 245/ SOCL 245(R/W/S) .....	3	
LITR 240 .....	3	
MATH 212 .....	4	
Physical Sci Elec.....	3	
Total Hours:	18	
<b>Semester V</b>		
EDUC 312 .....	3	
EDUC 330 .....	3	
EDUC 342 .....	3	
EDUC 344 .....	3	
EDUC 293 .....	3	
PHIL 313 .....	3	
Total Hours:	18	

*(Continued on the following page)*

<sup>1</sup> An optional 1-hour course (EDUC 242L) is available for students transferring to baccalaureate institutions requiring field experience in addition to the lecture content of Educational Psychology.

<b><i>Liberal Education Core</i></b>	<b>37</b>
ARTT 110 Art Appreciation .....	3
ENGL 102 English Composition II .....	3
HIST 139 American History I -or-	
HIST 140 American History II .....	3
HIST 236 World Civilization II .....	3
HLTH 211 First Aid .....	2
HUMN 245 Cultural Diversity: Humanities -or-	
SOCL 245 Cultural Diversity: Sociology .....	3
LFSC 100 Human Biology .....	4
LITR 220 World Literature I -or-	
LITR 221 World Literature II .....	3
LITR 240 Children's Literature .....	3
PFWL 115 Concepts in Wellness .....	1
PHIL 313 Contemporary Ethical Issues .....	3
PSYC 142 General Psychology .....	3
Physical Science Elective <sup>1</sup> .....	3

*Computer Skills are enhanced by EDUC 200.*

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<b>Semester VI</b>	
EDUC 310 .....	3
EDUC 340 .....	3
EDUC 350 .....	3
EDUC 362 .....	3
EDUC 363 .....	2
EDUC 374 .....	3
Total Hours: 17	
<b>Semester VII</b>	
EDUC 346 .....	3
EDUC 352 .....	3
EDUC 360 .....	3
EDUC 361 .....	3
EDUC 364 .....	3
EDUC 372 .....	3
Total Hours: 18	
<b>Semester VIII</b>	
EDUC 477 .....	6
EDUC 492 .....	6
EDUC 493 .....	3
Total Hours: 15	

<sup>1</sup> PSCI 102 is preferred.

**EDUCATION - TEACHING PARAPROFESSIONAL 1360**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This two year curriculum is designed for those interested in working as aides in a public or private school setting or in a facility dealing with students from K-12 levels. The majority of the course offerings would apply to the other educational degrees at Vincennes University and other institutions.

	Credit Hours - A.A.S.	A.S.				
<b>Major Program Requirements</b>	<b>39</b>	<b>33</b>				
EDUC 100 Numeracy and Manipulatives .....	3	3	<b>Recommended Sequence of Courses for A.A.S.</b> (This sequence assumes any necessary developmental requirements have been met.)	<b>Recommended Sequence of Courses for A.S.</b> (This sequence assumes any necessary developmental requirements have been met.)		
EDUC 110 Reading Strategies.....	3	3				
EDUC 200 Computer Technology for Teachers.....	3	3				
EDUC 202 Paraprofessionals in the School .....	3	3				
EDUC 242 Educational Psychology .....	3	3				
EDUC 260 Childhood Health, Safety and Nutrition....	3	3				
EDUC 290 Initial Experiences in Education .....	3	3				
EDUC 291 Introduction to Exceptionalities .....	3	3				
EDUC 292 Foundations of Education .....	3	3				
PSYC 251 Fundamentals of Assistive Technology ....	3	3				
Electives <sup>1</sup> .....	9	3				
<b>General Education Requirements</b>						
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>						
<b>Basic Skills Core</b>	<b>10</b>	<b>9</b>				
ENGL 101 English Composition I .....	3	3	<b>Semester I</b> EDUC 200 .....3 EDUC 202 .....3 ENGL 101 .....3 PSYC 142 .....3 Lab Sci Elec.....3 Total Hours: 15	<b>Semester I</b> EDUC 200 .....3 EDUC 202 .....3 ENGL 101 .....3 PSYC 142 .....3 Lab Sci Elec.....4 Total Hours: 16		
MATH 101 Intermediate Algebra (or higher Mathematics) .....	-	3				
MATH 105 Applied Mathematics I .....	4	-				
SPCH 143 Speech -or-						
SPCH 148 Interpersonal Communications .....	3	3				
<i>The Reading and Writing and Speaking Intensive requirement may be met by EDUC 290.</i>						
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>						
<b>Liberal Education Core</b>	<b>14</b>	<b>21</b>				
ENGL 102 English Composition II .....	- 3		<b>Semester II</b> EDUC 110 .....3 EDUC 291 .....3 MATH 105 .....4 SPCH 143/148 .....3 Hum/Math/Soc Sci/Science/ Writing Elec .....3 Total Hours: 16	<b>Semester II</b> EDUC 110 .....3 EDUC 291 .....3 ENGL 102 .....3 MATH 101 .....3 SPCH 143/148 .....3 Total Hours: 15		
PFWL 100 Lifetime Fitness/Wellness .....	2	2				
PSYC 142 General Psychology .....	3	3				
Laboratory Science Elective--Common Core List.....	-	4				
Science Elective--Common Core List .....	3	-				
Humanities Elective--Common Core List .....	-	3				
Social Science Elective--Core List.....	-	3				
One course from two of the following areas: Humanities, Mathematics or Science--Broad Core List -or- Social Science--Core List .....	6	-				
Humanities, or Science/Math Elective-Broad Core List -	-	3				
<i>The Computer Skills requirement is met by EDUC 200.</i>						
			<b>Semester III</b> EDUC 100 .....3 EDUC 242 .....3 EDUC 292 .....3 PFWL 100 .....2 PSYC 251 .....3 Elective.....3 Total Hours: 17	<b>Semester III</b> EDUC 100 .....3 EDUC 242 .....3 EDUC 292 .....3 PFWL 100 .....2 PSYC 251 .....3 Hum/Math/Soc Sci/Science Elec....3 Total Hours: 17		
			<b>Semester IV</b> EDUC 260 .....3 EDUC 290(R/W/S) .3 Electives .....6 Hum/Math/Soc Sci/Science/ Writing Elec .....3 Total Hours: 15	<b>Semester IV</b> EDUC 260 .....3 EDUC 290(R/W/S) .3 Electives .....3 Humanities Elec.....3 Soc Science Elec....3 Total Hours: 15		
		<b>63</b>	<b>63</b>			

**NOTE:** A grade of C or better must be maintained in all Major Courses-Departmental Requirements or the course(s) must be repeated.

<sup>1</sup> HIST 236 World Civilization II, MUSM 225 Music in the Elementary Classroom, PHED 210 Physical Education for the Elementary School, LITR 220 or 221 Introduction to World Literature I or II, HIST 139 or 140 American History I or II, LITR 240 Children's Literature.

**EDUCATION – TECHNOLOGY CONCENTRATION 8340**  
**Teaching License Coverage: Grades 7-12 (Secondary), Grade K-12 (All Grade)**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed for students who have selected the career choice to teach technology education in the secondary school. The license permits teaching in the four areas of technology education: construction, communications, manufacturing and transportation in grades K-12.

	<b>Credit Hours</b>		
<b>Major Program Requirements</b>	<b>42</b>		
DRAF 101 Introduction to Drafting .....	3	<p style="text-align: center;"><i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p style="text-align: center;"><b>Semester I</b></p> <p>DRAF 101 .....3  EDUC 200 .....3  ENGL 101 .....3  MATH 101 .....3  PFWL 100 .....2  PSYC 142 .....3  Total Hours: 17</p> <hr/> <p style="text-align: center;"><b>Semester II</b></p> <p>DRAF 140 .....3  EDUC 291 .....3  ENGL 102 .....3  HIST 139 .....3  PHYT 101 .....4  SPCH 143/148 .....3  Total Hours: 19</p> <hr/> <p style="text-align: center;"><b>Semester III</b></p> <p>EDUC 290(R/W/S) .....3  EDUC 292 .....3  HIST 140 .....3  PRNT 155 .....2  PRNT 155L .....2  Technical Elective .....3  Science Elec .....3  Total Hours: 19</p> <hr/> <p style="text-align: center;"><b>Semester IV</b></p> <p>ELEC 100 .....5  ENGL 250 .....3  HUMN 210 .....3  Technical Elective .....3  Science Elec .....3  Total Hours: 17</p>	
DRAF 140 Introduction to CAD .....	3		
EDUC 200 Computer Technology for Teachers .....	3		
EDUC 290 Initial Experiences in Education .....	3		
EDUC 291 Introduction to Exceptionalities .....	3		
EDUC 292 Foundations of Education .....	3		
ELEC 100 Basic Electricity and Electronics .....	5		
ENGL 250 English Grammar .....	3		
PRNT 155 Computer Aided Publishing I.....	2		
PRNT 155L Computer Aided Publishing Laboratory I.....	2		
PSYC 142 General Psychology .....	3		
Technical Electives .....	6		
Science Elective <sup>1</sup> .....	3		
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b>	<b>9</b>		
ENGL 101 English Composition I .....	3		
MATH 101 Intermediate Algebra (or higher mathematics) .....	3		
SPCH 143 Speech -or-			
SPCH 148 Interpersonal Communication .....	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by EDUC 290. The Mathematics Intensive requirement may be met by a second mathematics course or by passing a mathematics assessment examination.</i>			
<b>Liberal Education Core</b>	<b>21</b>		
ENGL 102 English Composition II .....	3		
HIST 139 American History I.....	3		
HIST 140 American History II .....	3		
HUMN 210 Introduction to Humanities I.....	3		
PFWL 100 Lifetime Fitness/Wellness .....	2		
PHYT 101 Technical Physics .....	4		
Science Elective – Broad Core List <sup>1</sup> .....	3		
<i>Computer Skills are enhanced by EDUC 200. ___</i>			
	<b>72</b>		

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

<sup>1</sup> Student must choose from three different science areas from among chemistry, earth science, life science and physics. Student must include one course in life science and one in a physical science.

**ELECTRONICS FUNDAMENTALS 8367**  
**A One-Year Certificate of Program Completion**

This one-year curriculum prepares students in the foundations of electronics technology. The primary electronics concepts of circuit analysis, digital electronics, linear electronics, and cabling will be studied by students. Courses in this curriculum contain extensive hands-on experiences in the underlying fundamentals of electronics technology. This program will benefit those who wish to train for entry-level careers in electronics technology. This curriculum will also be of special interest to maintenance workers, electricians, cable installers, automotive-truck mechanics, laboratory assistants, and those individuals who already possess an expertise in other fields of technology but require knowledge of electronics. No previous experience in electronics is required.

	<b>Credit Hours</b>	
CPNS 150 Computer Telecommunications .....	2	<p style="text-align: center;"><i><b>Recommended Sequence of Courses</b></i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester I</b></p> <p>ELEC 110 .....6  ELEC 130 .....3  ENGL 101 .....3  MATH 101 .....3  Total Hours: 15</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester II</b></p> <p>CPNS 150 .....2  ELEC 151 .....4  ELEC 180 .....3  ELEC 210 .....2  SPCH 143/148.....3  Total Hours: 14</p>
ELEC 110 Basic Component and Circuit Analysis .....	6	
ELEC 130 Digital Logic I .....	3	
ELEC 151 Linear Circuits .....	4	
ELEC 180 Digital Logic II .....	3	
ELEC 210 Advanced Linear Circuits .....	2	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra .....	3	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	
	<b>29</b>	

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011.

**ELECTRONICS TECHNOLOGY – BIOMEDICAL TECHNICIAN CONCENTRATION 8361**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum prepares graduates for employment as service technicians, engineering assistants, or manufacturer's representatives. Students gain laboratory experiences in electronic fundamentals, communications techniques, digital systems, microprocessors, and biomedical systems. Students with a recentered SAT Math score of less than (R)480 may have difficulty completing the program in four semesters.

		Credit Hours - A.A.S.	A.S.
<b>Major Program Requirements</b>		<b>44-47</b>	<b>44 -47</b>
BIOM 200	Biomedical Electronics I .....	6	6
BIOM 250	Biomedical Electronics II .....	6	6
BIOM 290	Biomedical Internship <sup>1</sup> .....	0-3	0-3
CPNS 150	Computer Telecommunications .....	2	2
ELEC 110	Basic Component and Circuit Analysis ....	6	6
ELEC 130	Digital Logic I.....	3	3
ELEC 151	Linear Circuits .....	4	4
ELEC 180	Digital Logic II .....	3	3
ELEC 210	Advanced Linear Circuits .....	2	2
ELEC 215	Receiver and Video Circuit Analysis.....	4	4
ELEC 220	Industrial Electrical Controls .....	4	4
ELEC 230	Computer Electronics .....	4	4

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>
ENGL 101	English Composition I .....	3	3
MATH 101	Intermediate Algebra.....	3	-
MATH 102	College Algebra .....	-	3
SPCH 143	Speech -or-		
SPCH 148	Interpersonal Communication .....	3	3

*The Reading, Writing Intensive and Speaking requirements may be met by BIOM 250.*

*The Mathematics Intensive requirement may be met by MATH 102 or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>		<b>15-16</b>	<b>21-22</b>
ECON 203	Survey of Labor Economics.....	-	3
ENGL 102	English Composition II -or-		
ENGL 108	Technical Writing .....	-	3
LFSC 107	Essentials of Human Anatomy and Physiology .....	3	3
LFSC 107L	Essentials of Human Anatomy and Physiology Laboratory .....	1	1
MATH 102	College Algebra .....	3	-
MATH 104	Trigonometry .....	-	3
PFWL 100	Lifetime Fitness/Wellness -or-		
PFWL 115	Concepts in Wellness -and-		
HLTH 211	First Aid.....	2-3	2-3
PSYC 141	Applied Psychology .....	-	3
Humanities Elective – Common Core List .....		-	3
Social Science Elective – Core List .....		3	-
One course from one of the following areas:			
Humanities or Science – Broad Core List -or-			
Social Science or Writing – Core List .....		3	-

*Computer Skills are enhanced by ELEC 230.*

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<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
Semester I	Semester I
ELEC 110 ..... 6 ELEC 130 ..... 3 ENGL 101 ..... 3 MATH 101 ..... 3 PFWL 100 or PFWL 115/ HLTH 211 ..... 2-3 Total Hours: 17-18	ELEC 110..... 6 ELEC 130..... 3 ENGL 101 ..... 3 MATH 102(M) ..... 3 PFWL 100 or PFWL 115/ HLTH 211 ..... 2-3 Total Hours: 17-18
Semester II	Semester II
CPNS 150 ..... 2 ELEC 151 ..... 4 ELEC 180 ..... 3 ELEC 210 ..... 2 MATH 102(M) ..... 3 SPCH 143/148 ..... 3 Total Hours: 17	CPNS 150..... 2 ELEC 151..... 4 ELEC 180..... 3 ELEC 210..... 2 ENGL 102 ..... 3 MATH 104..... 3 SPCH 143/148 ..... 3 Total Hours: 20
Summer	Summer
BIOM 290 ..... 0-3	BIOM 290 ..... 0-3
Semester III	Semester III
BIOM 200 ..... 6 ELEC 220 ..... 4 LFSC 107 ..... 3 LFSC 107L ..... 1 Soc Sci Elective ..... 3 Total Hours: 17	BIOM 200 ..... 6 ECON 203 ..... 3 ELEC 220..... 4 LFSC 107 ..... 3 LFSC 107L ..... 1 Total Hours: 17
Semester IV	Semester IV
BIOM 250(R/W/S) .. 6 ELEC 215 ..... 4 ELEC 230 ..... 4 Hum/Sci/Soc Sci/ Writing Elective.. 3 Total Hours: 17	BIOM 250(R/W/S) .. 6 ELEC 215..... 4 ELEC 230..... 4 PSYC 141..... 3 Humanities Elec.... 3 Total Hours: 20

<sup>1</sup> See course description for details regarding this optional internship.

**ELECTRONICS TECHNOLOGY**  
**COMPUTER NETWORKING SECURITY AND WIRELESS SPECIALISTS 8256**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum prepares graduates for employment in a large number of computer networking fields, with emphasis in network security and wireless network technologies. Extensive network training, including hands-on experience with many WAN (Wide Area Networking) and LAN (Local Area Networking) technologies is provided. Courses help prepare students for CompTIA, Cisco, Microsoft, Cisco Security, and Cisco Wireless computer certifications. Extensive studying and certification test preparation are required for students to become certified. Graduates are trained for entry-level positions as network installers, network technicians, and network managers with specialized skills in security and wireless technologies.

		Credit Hours – A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>		<b>49</b>	<b>49</b>		
CMET 240	Computer Maintenance I .....	6	6	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
CMET 275	Computer Maintenance II .....	6	6		
CPNS 101	LAN Basics and OSI Model .....	3	3		
CPNS 102	WAN Basics and Routers .....	3	3		
CPNS 103	VLANs and Network Management.....	3	3		
CPNS 104	WAN Design and Protocols .....	3	3		
CPNS 170	Computer Networking I .....	4	4		
CPNS 221	Network Security for WANs .....	4	4		
CPNS 222	Wireless Networking for WANs.....	3	3		
CPNS 240	Computer Networking II .....	4	4		
CPNS 248	Network Security for LANs.....	2	2		
ELEC 100	Basic Electricity and Electronics .....	5	5		
ELEC 130	Digital Logic I.....	3	3		
				CPNS 101 .....3	CPNS 101 .....3
				CPNS 102 .....3	CPNS 102 .....3
				ELEC 100 .....5	ELEC 100 .....5
				ELEC 130 .....3	ELEC 130 .....3
				ENGL 101 ..... 3	ENGL 101 .....3
				Total Hours: 17	MATH 102(M)..... 3
					Total Hours: 20
				<b>Semester II</b>	<b>Semester II</b>
				CPNS 103 .....3	CPNS 103 .....3
				CPNS 104 .....3	CPNS 104 .....3
				CPNS 170 .....4	CPNS 170 .....4
				MATH 101 ..... 3	ENGL 102/108..... 3
				SPCH 143/148..... 3	MATH 104 .....3
				Soc Science Elec... 3	SPCH 143/148(W)... 3
				Total Hours: 19	Total Hours: 19
				<b>Semester III</b>	<b>Semester III</b>
				CMET 240 .....6	CMET 240 .....6
				CPNS 222 .....3	CPNS 221 .....4
				CPNS 240 .....4	CPNS 240 .....4
				MATH 102(M) .....3	Humanities Elec ..... 3
				PFWL 100 or	Soc Science Elec... 3
				PFWL 115/	Total Hours: 20
				HLTH 211 ..... 2-3	
				Total Hours: 18-19	
				<b>Semester IV</b>	<b>Semester IV</b>
				CMET 275(R/W/S) ..6	CMET 275(R/W/S) ..6
				CPNS 221 .....4	CPNS 222 .....3
				CPNS 248 .....2	CPNS 248 .....2
				Lab Science Elec..... 3	Soc Science Elec ..... 3
				Hum/Sci/Soc Sci/	PHYS 105 .....4
				Writing Elective... 3	PHYS 105L ..... 1
				Total Hours: 18	PFWL 100 or
					PFWL 115/
					HLTH 211 ..... 2-3
					Total Hours: 21-22
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>					
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>		
ENGL 101	English Composition I .....	3	3		
MATH 101	Intermediate Algebra.....	3	-		
MATH 102	College Algebra .....	-	3		
SPCH 143	Speech -or-				
SPCH 148	Interpersonal Communication .....	3	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by CMET 275.</i>					
<i>The Writing Intensive requirement may be met by SPCH 148.</i>					
<i>The Mathematics Intensive requirement may be met by MATH 102 or by passing a mathematics assessment examination.</i>					
<b>Liberal Education Core</b>		<b>14-15</b>	<b>22-23</b>		
ENGL 102	English Composition II -or-				
ENGL 108	Technical Writing .....	-	3		
MATH 102	College Algebra .....	3	-		
MATH 104	Trigonometry .....	-	3		
PFWL 100	Lifetime Fitness/Wellness -or-				
PFWL 115	Concepts in Wellness -and-				
HLTH 211	First Aid .....	2-3	2-3		
PHYS 105	General Physics I .....	-	4		
PHYS 105L	General Physics Laboratory .....	-	1		
Laboratory Science Elective – Common Core List .....		3	-		
Humanities Elective – Common Core List .....		-	3		
Social Science Elective(s) – Core List.....		3	6		
One course from one of the following areas:					
Humanities or Science – Broad Core List -or-					
Social Science or Writing – Core List .....		3	-		
<i>Computer Skills are enhanced by Major Program Requirements.</i>					
		<b>72-73</b>	<b>80-81</b>		

**ELECTRONICS TECHNOLOGY  
COMPUTER NETWORKING SPECIALIST 8255  
A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum prepares graduates for employment in a large number of computer networking fields, with emphasis on network administration and design. Extensive network training, including hands-on experience with many WAN (Wide Area Networking) and LAN (Local Area Networking) technologies is provided. Networking courses also help to prepare students for CompTIA, Cisco, and Microsoft certification tests. Graduates may find entry-level employment as LAN-WAN network installers, network service technicians, network administrators, network designers, and LAN managers. Extensive reading, studying, and certification test preparation are required for student success.

		Credit Hours – A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>		<b>48</b>	<b>48</b>		
CMET 240	Computer Maintenance I.....	6	6	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
CMET 275	Computer Maintenance II.....	6	6		
CPNS 101	LAN Basics and OSI Model.....	3	3		
CPNS 102	WAN Basics and Routers.....	3	3		
CPNS 103	VLANs and Network Management.....	3	3		
CPNS 104	WAN Design and Protocols.....	3	3		
CPNS 170	Computer Networking I.....	4	4		
CPNS 240	Computer Networking II.....	4	4		
CPNS 280	Computer Networking III.....	4	4		
ELEC 100	Basic Electricity and Electronics.....	5	5		
ELEC 130	Digital Logic I.....	3	3		
ELEC 230	Computer Electronics.....	4	4	3	3
				Total Hours: 17	Total Hours: 20
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>					
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>		
ENGL 101	English Composition I.....	3	3	Total Hours: 19	Total Hours: 19
MATH 101	Intermediate Algebra.....	3	-		
MATH 102	College Algebra.....	-	3		
SPCH 143	Speech -or-				
SPCH 148	Interpersonal Communication.....	3	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by CMET 275.</i>					
<i>The Mathematics Intensive requirement may be met by MATH 102 or by passing a mathematics assessment examination.</i>					
<b>Liberal Education Core</b>		<b>14-15</b>	<b>22</b>		
ENGL 102	English Composition II -or-			Total Hours: 18-19	Total Hours: 20-21
ENGL 108	Technical Writing.....	-	3		
MATH 102	College Algebra.....	3	-		
MATH 104	Trigonometry.....	-	3		
PFWL 100	Lifetime Fitness/Wellness -or-				
PFWL 115	Concepts in Wellness -and-				
HLTH 211	First Aid.....	2-3	2-3		
PHYS 105	General Physics I.....	-	4		
PHYS 105L	General Physics Laboratory I.....	-	1		
Laboratory Science Elective – Common Core List.....		3	-		
Humanities Elective – Common Core List.....		-	3		
Social Science Elective(s) – Core List.....		3	6		
One course from one of the following areas:					
Humanities or Science – Broad Core List -or-					
Social Science or Writing – Core List.....					
				Total Hours: 17	Total Hours: 20
<i>Computer Skills are enhanced by ELEC 230.</i>					
				<b>71-72</b>	<b>79</b>
				<b>-80</b>	



**ELECTRONICS TECHNOLOGY**  
**COMPUTER REPAIR TECHNICIAN TECHNOLOGY CONCENTRATION 8363**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum prepares graduates for employment in the desktop computer maintenance field. Students gain installation and repair experience with computer systems, networks, video displays, multimedia hardware, laser and impact printers, CD-ROMs, associated software, and preparation for A+ certification. Graduates may find entry-level employment as computer repair technicians, factory field representatives, component level technicians, technical computer assistants, or in computer sales.

	Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>				
	<b>44</b>	<b>44</b>		
CMET 240 Computer Maintenance I .....	6	6	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
CMET 275 Computer Maintenance II .....	6	6		
CPNS 150 Computer Telecommunications .....	2	2		
CPNS 170 Computer Networking I .....	4	4		
ELEC 110 Basic Component and Circuit Analysis ....	6	6		
ELEC 130 Digital Logic I .....	3	3		
ELEC 151 Linear Circuits .....	4	4		
ELEC 180 Digital Logic II .....	3	3		
ELEC 210 Advanced Linear Circuits .....	2	2		
ELEC 215 Receiver and Video Circuit Analysis .....	4	4		
ELEC 230 Computer Electronics .....	4	4		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>				
	<b>9</b>	<b>9</b>		
ENGL 101 English Composition I .....	3	3		
MATH 101 Intermediate Algebra .....	3	-		
MATH 102 College Algebra .....	-	3		
SPCH 143 Speech -or-				
SPCH 148 Interpersonal Communications .....	3	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by CMET 275.</i>				
<i>The Mathematics Intensive requirement may be met by MATH 102 or by passing a mathematics assessment examination.</i>				
<b>Liberal Education Core</b>				
	<b>14-15</b>	<b>22-23</b>		
ECON 203 Survey of Labor Economics .....	-	3		
ENGL 102 English Composition II -or-				
ENGL 108 Technical Writing .....	-	3		
MATH 102 College Algebra .....	3	-		
MATH 104 Trigonometry .....	-	3		
PFWL 100 Lifetime Fitness/Wellness -or-				
PFWL 115 Concepts in Wellness -and-				
HLTH 211 First Aid .....	2-3	2-3		
PHYS 105 General Physics I .....	-	4		
PHYS 105L General Physics Laboratory I .....	-	1		
Laboratory Science Elective – Broad Core List .....	3	-		
Humanities Elective – Common Core List .....	-	3		
Social Science Elective – Core List .....	3	3		
One course from one of the following areas:				
Humanities or Science – Broad Core List -or-				
Social Science or Writing – Core List .....	3	-		
<i>Computer Skills are enhanced by ELEC 230.</i>				
	<b>67-68</b>	<b>75 -76</b>		
			<b>Semester I</b>	<b>Semester I</b>
			ELEC 110 .....6	ELEC 110 .....6
			ELEC 130 .....3	ELEC 130 .....3
			ENGL 101 .....3	ENGL 101 .....3
			MATH 101 .....3	MATH 102(M) .....3
			PFWL 100 or	PFWL 100 or
			PFWL 115/	PFWL 115/
			HLTH 211 ..... 2-3	HLTH 211 ..... 2-3
			Total Hours: 17-18	Total Hours: 17-18
			<b>Semester II</b>	<b>Semester II</b>
			CPNS 150 .....2	CPNS 150 .....2
			ELEC 151 .....4	ELEC 151 .....4
			ELEC 180 .....3	ELEC 180 .....3
			ELEC 210 .....2	ELEC 210 .....2
			MATH 102(M) .....3	ENGL 102/108 .....3
			SPCH 143/148 ..... 3	MATH 104 .....3
			Total Hours: 17	SPCH 143/148 ..... 3
				Total Hours: 20
			<b>Semester III</b>	<b>Semester III</b>
			CMET 240 .....6	CMET 240 .....6
			ELEC 230 .....4	ECON 203 .....3
			Lab Science Elec .....3	ELEC 230 .....4
			Soc Sci Elective .... 3	Humanities Elec ....3
			Total Hours: 16	Soc Sci Elective .... 3
				Total Hours: 19
			<b>Semester IV</b>	<b>Semester IV</b>
			CMET 275(R/W/S) ..6	CMET 275(R/W/S) ..6
			ELEC 215 .....4	CPNS 170 .....4
			CPNS 170 .....4	ELEC 215 .....4
			Hum/Science/Soc	PHYS 105 .....4
			Sci/Writing Elec .. 3	PHYS 105L ..... 1
			Total Hours: 17	Total Hours: 19

**ELECTRONICS TECHNOLOGY (ELECTRONICS TECHNICIAN) 8360**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum prepares graduates as electronics technicians. Employers requiring technicians for service and repair, engineering assistants, digital and computer interfacing, installation and maintenance of communications and video systems, as well as many other facets of the electronics industry, will require electronics technicians. Students with a recentered SAT Math score of less than (R)480 may have difficulty completing the program in four semesters.

	Credit Hours - A.A.S.	A.S.		
<b>Major Program Requirements</b>			<b>44-47</b>	<b>44 -47</b>
CPNS 150	Computer Telecommunications .....	2	2	
ELEC 110	Basic Component and Circuit Analysis ....	6	6	
ELEC 130	Digital Logic I.....	3	3	
ELEC 151	Linear Circuits .....	4	4	
ELEC 180	Digital Logic II .....	3	3	
ELEC 210	Advanced Linear Circuits .....	2	2	
ELEC 215	Receiver and Video Circuit Analysis.....	4	4	
ELEC 220	Industrial Electronics Control .....	4	4	
ELEC 230	Computer Electronics .....	4	4	
ELEC 245	Communications Electronics .....	6	6	
ELEC 285	Electronic Applications .....	6	6	
ELEC 286	Cooperative Work Experience .....	0-3	0-3	
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>			<b>9</b>	<b>9</b>
ENGL 101	English Composition I .....	3	3	
MATH 101	Intermediate Algebra.....	3	-	
MATH 102	College Algebra .....	-	3	
SPCH 143	Speech -or-			
SPCH 148	Interpersonal Communications .....	3	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by ELEC 285.</i>				
<i>The Mathematics Intensive requirement may be met by MATH 102 or by passing a mathematics assessment examination.</i>				
<b>Liberal Education Core</b>			<b>14-15</b>	<b>22-23</b>
ENGL 102	English Composition II -or-			
ENGL 108	Technical Writing .....	-	3	
MATH 102	College Algebra .....	3	-	
MATH 104	Trigonometry .....	-	3	
PFWL 100	Lifetime Fitness/Wellness -or-			
PFWL 115	Concepts in Wellness -and-			
HLTH 211	First Aid .....	2-3	2-	3
PHYS 105	General Physics I .....	-	4	
PHYS 105L	General Physics Laboratory I.....	-	1	
	Laboratory Science Elective – Broad Core .....	3	-	
	Humanities Elective – Common Core List .....	-	3	
	Social Science Elective(s) – Core List.....	3	6	
One course from one of the following areas:				
	Humanities or Science – Broad Core List -or-			
	Social Science or Writing – Core List .....	3	-	
<i>Computer Skills may be enhanced by ELEC 230.</i>				
		<b>67-71</b>	<b>75</b>	<b>-79</b>

<i>Recommended Sequence of Courses for A.A.S.</i>		<i>Recommended Sequence of Courses for A.S.</i>	
(This assumes any necessary developmental requirements have been met.)		(This assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>		<b>Semester I</b>	
ELEC 110 .....	6	ELEC 110 .....	6
ELEC 130 .....	3	ELEC 130 .....	3
ENGL 101 .....	3	ENGL 101 .....	3
MATH 101 .....	3	MATH 102(M) .....	3
PFWL 100 or PFWL 115/HLTH 211 .....	2-3	PFWL 100 or PFWL 115/HLTH 211 .....	2-3
Total Hours: 17-18		Total Hours: 17-18	
<b>Semester II</b>		<b>Semester II</b>	
CPNS 150 .....	2	CPNS 150 .....	2
ELEC 151 .....	4	ELEC 151 .....	4
ELEC 180 .....	3	ELEC 180 .....	3
ELEC 210 .....	2	ELEC 210 .....	2
MATH 102(M) .....	3	ENGL 102/108 .....	3
SPCH 143/148 .....	3	MATH 104 .....	3
Total Hours: 17		SPCH 143/148 .....	
		Total Hours: 20	
<b>Summer</b>		<b>Summer</b>	
ELEC 286 .....	0-3	ELEC 286 .....	0-3
<b>Semester III</b>		<b>Semester III</b>	
ELEC 220 .....	4	ELEC 220 .....	4
ELEC 230 .....	4	ELEC 230 .....	4
ELEC 245 .....	6	ELEC 245 .....	6
Soc Sci Elective .....	3	Soc Sci Elective .....	3
Total Hours: 17		Total Hours: 17	
<b>Semester IV</b>		<b>Semester IV</b>	
ELEC 215 .....	4	ELEC 215 .....	4
ELEC 285(R/W/S) .....	6	ELEC 285(R/W/S) .....	6
Human/Sci/Soc Sci/ Writing Elective .....	3	PHYS 105 .....	4
Lab Sci Elective .....	3	PHYS 105L .....	1
Total Hours: 16		Humanities Elec .....	
		Soc Sci Elective .....	
		Total Hours: 21	

**ELECTRONICS TECHNOLOGY – LASER AND ELECTRO-OPTICS CONCENTRATION 8368**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum prepares a graduate to work as skilled technicians in industrial and government research facilities, hospitals, laser machine shops, and manufacturing facilities. The curriculum is designed to develop skills in the areas of optics, electronics, vacuum technology and mechanics by providing extensive hands-on experience in a well-equipped laser facility.

		Credit Hours - A.A.S.	A.S.		
<b>Major Program Requirements</b>		<b>47</b>	<b>47</b>		
ELEC 110	Basic Component and Circuit Analysis ...	6	6		
ELEC 130	Digital Logic I.....	3	3		
ELEC 151	Linear Circuits .....	4	4		
ELEC 180	Digital Logic II .....	3	3		
ELEC 215	Receiver and Video Circuit Analysis.....	4	4		
ELEC 210	Advanced Linear Circuits.....	2	2		
ELEC 220	Industrial Electronics Control .....	4	4		
ELEC 230	Computer Electronics.....	4	4		
LASR 230	Optical Metrology and Holography .....	4	4		
LASR 235	Introduction to Optics .....	3	3		
LASR 240	Introduction to Lasers .....	3	3		
LASR 290	Laser Applications .....	4	4		
MTTD 135	Manufacturing Processes .....	2	2		
MTTD 135L	Manufacturing Processes Laboratory.....	1	1		
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>					
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>		
ENGL 101	English Composition I .....	3	3		
MATH 101	Intermediate Algebra .....	3	-		
MATH 102	College Algebra .....	-	3		
SPCH 143	Speech -or-				
SPCH 148	Interpersonal Communications. ....	3	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by LASR 290.</i>					
<i>The Mathematics Intensive requirement may be met by MATH 102 or by passing a mathematics assessment examination.</i>					
<b>Liberal Education Core</b>		<b>14-15</b>	<b>22-23</b>		
ENGL 108	Technical Writing .....	-	3		
MATH 102	College Algebra .....	3	-		
MATH 104	Trigonometry .....	-	3		
PFWL 100	Lifetime Fitness/Wellness -or-				
PFWL 115	Concepts in Wellness -and-				
HLTH 211	First Aid.....	2-3	2-3		
PHYS 105	General Physics I .....	-	4		
PHYS 105L	General Physics Laboratory I.....	-	1		
Laboratory Science Elective – Common Core .....		3	-		
Humanities Elective – Common Core List .....		-	3		
Social Science Elective(s) – Core List.....		3	6		
One course from one of the following areas: Humanities or Science – Broad Core List -or- Social Science or Writing – Core List .....		3	-		
<i>Computer Skills are enhanced by ELEC 230.</i>					
		<b>70-71</b>	<b>78 -79</b>		
				<b>Recommended Sequence of Courses for A.A.S.</b>	<b>Recommended Sequence of Courses for A.S.</b>
				(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
				<b>Semester I</b>	<b>Semester I</b>
				ELEC 110 ..... 6	ELEC 110 .....6
				ELEC 130 ..... 3	ELEC 130 .....3
				ENGL 101 .....3	ENGL 101 .....3
				MATH 101..... 3	MATH 102(M).....3
				PFWL 100 or	PFWL 100 or
				PFWL 115/	PFWL 115/
				HLTH 211..... 2-3	HLTH 211 ..... 2-3
				Total Hours: 17-18	Total Hours: 17-18
				<b>Semester II</b>	<b>Semester II</b>
				ELEC 151 ..... 4	ELEC 151 .....4
				ELEC 180 ..... 3	ELEC 180 .....3
				ELEC 210 ..... 2	ENGL 108 .....3
				MATH 102(M).....3	MATH 104.....3
				SPCH 143/148..... 3	SPCH 143/148.....3
				Soc Sci Elective .... 3	Soc Sci Elective .... 3
				Total Hours: 18	Total Hours: 19
				<b>Semester III</b>	<b>Semester III</b>
				ELEC 220 ..... 4	ELEC 220 .....4
				ELEC 230 ..... 4	ELEC 230 .....4
				LASR 235 ..... 3	LASR 235 .....3
				LASR 240 ..... 3	LASR 240 .....3
				MTTD 135 .....2	Humanities Elec ..... 3
				MTTD 135L..... 1	Soc Sci Elective .... 3
				Total Hours: 17	Total Hours: 20
				<b>Semester IV</b>	<b>Semester IV</b>
				ELEC 215 ..... 4	ELEC 210 .....2
				LASR 230 ..... 4	ELEC 215 .....4
				LASR 290(R/S/W) .. 4	LASR 230 .....4
				Hum/Sci/Soc Sci/	LASR 290(R/S/W) ..4
				Writing Elective.... 3	MTTD 135 .....2
				Lab Science Elec... 3	MTTD 135L..... 1
				Total Hours: 18	PHYS 105 .....4
					PHYS 105L ..... 1
					Total Hours: 22

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**ELECTRONICS TECHNOLOGY – SPECIALIST CONCENTRATION 8366**  
**A Two-Year Program Leading to the A.A.S. Degree**

This curriculum, available through Distance Education only, prepares graduates as electronics technicians. Employers requiring technicians for service and repair, engineering assistants, digital and computer interfacing, installation and maintenance of communications and video systems, as well as many other facets of the electronics industry will require an electronics technician.

	<b>Credit Hours</b>																																																													
<b>Major Program Requirements</b>	<b>42</b>																																																													
ELED 110 Basic Component and Circuit Analysis .....	6	<table border="1"> <thead> <tr> <th align="center" colspan="2"><i>Recommended Sequence of Courses</i></th> </tr> <tr> <td colspan="2"><i>(This sequence assumes any necessary developmental requirements have been met.)</i></td> </tr> <tr> <th align="center" colspan="2">Semester I</th> </tr> <tr> <td>ELED 110 .....</td> <td align="right">6</td> </tr> <tr> <td>ELED 120 .....</td> <td align="right">2</td> </tr> <tr> <td>ELED 130 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 101 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <th align="center" colspan="2">Semester II</th> </tr> <tr> <td>ELED 151 .....</td> <td align="right">3</td> </tr> <tr> <td>ELED 180 .....</td> <td align="right">3</td> </tr> <tr> <td>ELED 210 .....</td> <td align="right">2</td> </tr> <tr> <td>MATH 104 (M) .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 143/148 .....</td> <td align="right">3</td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <th align="center" colspan="2">Semester III</th> </tr> <tr> <td>ELED 220 .....</td> <td align="right">3</td> </tr> <tr> <td>ELED 230 .....</td> <td align="right">3</td> </tr> <tr> <td>ELED 245 .....</td> <td align="right">6</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>Hum/Science/Soc Sci Writing Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <th align="center" colspan="2">Semester IV</th> </tr> <tr> <td>ELED 215 .....</td> <td align="right">3</td> </tr> <tr> <td>ELED 280 .....</td> <td align="right">2</td> </tr> <tr> <td>ELED 285 (R/W/S) .....</td> <td align="right">6</td> </tr> <tr> <td>PHYT 101 .....</td> <td align="right">4</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> </thead></table>	<i>Recommended Sequence of Courses</i>		<i>(This sequence assumes any necessary developmental requirements have been met.)</i>		Semester I		ELED 110 .....	6	ELED 120 .....	2	ELED 130 .....	3	ENGL 101 .....	3	MATH 101 .....	3	Total Hours: 17		Semester II		ELED 151 .....	3	ELED 180 .....	3	ELED 210 .....	2	MATH 104 (M) .....	3	SPCH 143/148 .....	3	Soc Sci Elective .....	3	Total Hours: 17		Semester III		ELED 220 .....	3	ELED 230 .....	3	ELED 245 .....	6	PFWL 100 .....	2	Hum/Science/Soc Sci Writing Elective .....	3	Total Hours: 17		Semester IV		ELED 215 .....	3	ELED 280 .....	2	ELED 285 (R/W/S) .....	6	PHYT 101 .....	4	Total Hours: 15	
<i>Recommended Sequence of Courses</i>																																																														
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Semester I																																																														
ELED 110 .....	6																																																													
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ELED 151 .....	3																																																													
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Soc Sci Elective .....	3																																																													
Total Hours: 17																																																														
Semester III																																																														
ELED 220 .....	3																																																													
ELED 230 .....	3																																																													
ELED 245 .....	6																																																													
PFWL 100 .....	2																																																													
Hum/Science/Soc Sci Writing Elective .....	3																																																													
Total Hours: 17																																																														
Semester IV																																																														
ELED 215 .....	3																																																													
ELED 280 .....	2																																																													
ELED 285 (R/W/S) .....	6																																																													
PHYT 101 .....	4																																																													
Total Hours: 15																																																														
ELED 120 Computers for Technology .....	2																																																													
ELED 130 Digital Logic I .....	3																																																													
ELED 151 Linear Circuits .....	3																																																													
ELED 180 Digital Logic II .....	3																																																													
ELED 210 Advanced Linear Circuits .....	2																																																													
ELED 215 Receiver and Video Circuit Analysis .....	3																																																													
ELED 220 Industrial Electronics Control .....	3																																																													
ELED 230 Computer Electronics .....	3																																																													
ELED 245 Communication Electronics .....	6																																																													
ELED 280 Advanced Computer Electronics .....	2																																																													
ELED 285 Electronics Applications .....	6																																																													
<b>General Education Requirements</b>																																																														
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>																																																														
<b>Basic Skills Core</b>	<b>9</b>																																																													
ENGL 101 English Composition I .....	3																																																													
MATH 101 Intermediate Algebra .....	3																																																													
SPCH 143 Speech - or-																																																														
SPCH 148 Interpersonal Communication .....	3																																																													
<i>The Reading Writing and Speaking Intensive requirements may be met by ELED 285.</i>																																																														
<i>The Mathematics Intensive requirement may be met by MATH 101 or by passing a mathematics assessment examination..</i>																																																														
<b>Liberal Education Core</b>	<b>15</b>																																																													
MATH 104 Trigonometry .....	3																																																													
PFWL 100 Lifetime Fitness/Wellness .....	2																																																													
PHYT 101 Technical Physics .....	4																																																													
Social Science Elective – Core List .....	3																																																													
One course from one of the following areas: Humanities, or Science – Broad Core List -or- Social Science or Writing – Core List .....	3																																																													
<i>Computer Skills are enhanced by ELED 120.</i>																																																														

**EMERGENCY MANAGEMENT AND PLANNING 6034**  
**A Two-Year Program Leading to the A.S. Degree**

This program is a sequence of courses that prepares students for positions in the emergency management profession. Emergency managers work in a variety of professional settings. There is a critical and growing need for emergency management personnel in government agencies, private corporations and industry, and education or health care institutions.

<b>Major Program Requirements</b>	<b>Credit Hours</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
	<b>36-39</b>	
COMP 110 Introduction to Computer Concepts .....	3	
EMAP 100 Principles of Emergency Management .....	3	
EMAP 130 Incident Management Systems .....	3	
EMAP 160 Emergency Preparedness and Planning .....	3	
EMAP 180 Weapons of Mass Destruction .....	3	
EMAP 205 Responding to Terrorism Incidents.....	3	
EMAP 215 Exercise and Design .....	3	
EMAP 230 Emergency Operations Center (EOC) Management.....	2	
EMAP 230L Emergency Operations Center (EOC) Management Laboratory ..	1	
EMAP 250 Continuity of Operations.....	3	
EMTF 120 Medical First Responder -or-		
EMTB 212 Emergency Medical Technician-Basic .....	3-6	
FIRE 204 Hazardous Materials I.....	2	
FIRE 204L Hazardous Materials Laboratory I .....	1	
MGMT 260 Organizational Leadership .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b> <span style="float: right;"><b>9</b></span>		
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communications .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by EMAP 250. The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b> <span style="float: right;"><b>20</b></span>		
CHEM 120 Chemistry of Hazardous Materials .....	3	
ENGL 107 Business English -or-		
ENGL 108 Technical Writing .....	3	
HUMN 245 Cultural Diversity: Humanities .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
POLS 112 State and Local Government.....	3	
PSYC 142 General Psychology .....	3	
Humanities Elective – Common Core List .....	3	
<i>Computer Skills are enhanced by COMP 110.</i>		
	<b>65-68</b>	
		<b>Semester I</b>
		COMP 110 .....3
		EMAP 100 .....3
		EMTF 120/EMTB
		212..... 3-6
		ENGL 101 .....3
		MATH 101..... 3
		Total Hours: 15-18
		<b>Semester II</b>
		CHEM 120 .....3
		EMAP 130 .....3
		EMAP 160 .....3
		EMAP 180 .....3
		PSYC 142 .....3
		SPCH 143/148(W) ... 3
		Total Hours: 18
		<b>Semester III</b>
		EMAP 205 .....3
		EMAP 250(R/W/S) ....3
		FIRE 204 .....2
		FIRE 204L..... 1
		HUMN 245(R/W/S) ....3
		MGMT 260 .....3
		PFWL 100..... 2
		Total Hours: 17
		<b>Semester IV</b>
		EMAP 215 .....3
		EMAP 230 .....2
		EMAP 230L..... 1
		ENGL 107 or 108..... 3
		POLS 112 .....3
		Humanities Elec ..... 3
		Total Hours: 15

**EMERGENCY MEDICAL SERVICES 6030**  
**Two-Year Program Leading to the A.S. Degree**

This program provides an opportunity for students to become Emergency Medical Technicians, meet general studies requirements, and, if qualified, to attain an Associate of Science degree in Emergency Medical Services. Graduates will be prepared to function as a paramedic in advanced prehospital emergency care. While working under the direction of a physician, the paramedic utilizes knowledge and skills to manage medical emergencies of acutely ill or injured clients in prehospital settings. For students enrolled in the Florida Education Program: Licensed by the Commission for Independent Education, Florida Department of Education. Additional information regarding this institution may be obtained by contacting the Commission at 325 W. Gaines Street, Ste. 1414, Tallahassee, FL 32399-0400; toll free # (888) 224-6684.

**Admission Requirements**

**Basic Requirements**

Each application is reviewed individually. The following criteria are used as a guide for admission.

1. Meet the Admission requirements of the University.
2. Graduation from an accredited high school ranking in upper half of the graduating class.
3. Possess physical and mental health acceptable for performance as evidenced by examination by licensed physician.

**Program Requirements**

**ALL items must be completed PRIOR to application to EMTP course.**

1. Be 18 years of age or older.
2. Be state certified or nationally registered as an EMT in order to enroll in the second year of the Emergency Medical Services-Paramedic Program. Student must provide a copy of a current valid EMT certification.
3. Concurrent enrollment in or a grade of C or better in an Anatomy and Physiology elective.
4. Must possess an American Heart Association (AHA) Healthcare Provider CPR card.
5. Students are required to provide a limited criminal history as part of their entrance requirements. The limited criminal history may be obtained by writing the Central Repository for the Indiana State Police, 100 North Senate Avenue, Indianapolis, Indiana 46204 or by completing the form at [www.state.in.us/isp](http://www.state.in.us/isp). A money order or certified check must accompany the application, or a credit or debit card is needed for on-line fees. Hospital and ambulance providers may require a more extensive criminal background check or drug screening. Students are responsible for the cost of these.
6. Submit a copy of the immunization records to the Program Coordinator.
7. Students are required to test and achieve a CPTS score of at least 80 in English, 89 in Reading and 35 in Math, **or** take ENGL 101/MATH 011. In addition, students must successfully complete MATH 101 as part of the program requirements.
8. Experience: **Prior** to enrolling in the EMTP course, students **must** provide documentation showing **ONE** of the following:
  - a. TWO years of patient care at a service that has <2,000 runs annually
  - b. ONE year of patient care at a service that has 2,000 or more runs annually
  - c. Successfully complete **EMTB 250** (EMS Experience Course)
9. **Students must pass Entrance Testing:** (Contact **EMS Program Director** for information)
  - a. Written Exam
  - b. Practical Exam
  - c. Interview

<b>Major Program Requirements</b>	<b>Credit Hours</b>	
	<b>40-42</b>	
EMTB 212 Emergency Medical Technician-Basic .....	6	
EMTB 250 EMS Experience.....	0-2	
EMTP 160 Paramedic Prehospital Care I .....	7	
EMTP 165 Paramedic Clinical Education I.....	5	
EMTP 260 Paramedic Prehospital Care II.....	6	
EMTP 265 Paramedic Clinical Education II .....	6	
EMTP 290 Paramedic Prehospital Care III .....	3	
EMTP 291 Paramedic Clinical Education III .....	4	
HIMT 110 Medical Terminology for Allied Health .....	3	

<b>Recommended Sequence of Courses</b>	
(This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
EMTB 212 .....	6
ENGL 101 .....	3
PFWL 100 .....	2
SPCH 148 .....	3
A&P Elective .....	3-4
Total Hours: 17-18	

*(Continued on the following page)*

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition I.....	3
MATH 101 Intermediate Algebra .....	3
SPCH 148 Interpersonal Communications .....	3

*The Reading, Writing and Speaking Intensive requirements may be met by HUMN 245.  
The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>	<b>20-21</b>
ENGL 102 English Composition II.....	3
HUMN 245 Cultural Diversity: Humanities .....	3
PFWL 100 Lifetime Fitness/Wellness .....	2
PSYC 142 General Psychology .....	3
SOCL 151 Principles of Sociology .....	3
Humanities Elective – Common Core List .....	3
A&P Elective .....	3-4

*The Computer Skills requirement is met by Computers Across the Curriculum. \_*

<b>Semester II</b>	
EMTB 250.....	0-2
ENGL 102 .....	3
HIMT 110 .....	3
HUMN 245 (R/W/S)....	3
MATH 101 .....	3
PSYC 142.....	3
Total Hours: 15-17	
<b>Semester III</b>	
EMTP 160 .....	7
EMTP 165 .....	5
Humanities Elec .....	3
Total Hours: 15	
<b>Semester IV</b>	
EMTP 260 .....	6
EMTP 265 .....	6
SOCL 151.....	3
Total Hours: 15	
<b>Summer</b>	
EMTP 290 .....	3
EMTP 291 .....	4
Total Hours: 7	

**EMERGENCY MEDICAL SERVICES/PARAMEDIC 6033**  
**A Certificate of Program Completion**

This program prepares graduates to function as a paramedic in advanced prehospital emergency care. Paramedics work under the direction of a physician through written standing orders, radio and telephone communications. They utilize knowledge and skills to manage medical emergencies of acutely ill or injured clients in prehospital settings. Paramedics are primarily employed by rescue and ambulance service providers. They are also employed in clinics, emergency hospital areas and other health care facilities.

**Admission Requirements**

**Basic Requirements**

Each application is reviewed individually. The following criteria are used as a guide for admission.

1. Meet the Admission requirements of the University.
2. Graduation from an accredited high school ranking in upper half of the graduating class.
3. Possess physical and mental health acceptable for performance as evidence by examination by licensed physician.

**Program Requirements**

ALL items must be completed PRIOR to application to EMTP course.

1. Be 18 years of age or older.
2. Be state certified or nationally registered as an EMT in order to enroll in the Emergency Medical Services-Paramedic Program. Student must provide a copy of a current valid EMT certification.
3. Concurrent enrollment in or a grade of C or better in an Anatomy and Physiology elective.
4. Must possess an American Heart Association (AHA) Healthcare Provider CPR card.
5. Students are required to provide a limited criminal history as part of their entrance requirements. The limited criminal history may be obtained by writing the Central Repository for the Indiana State Police, 100 North Senate Avenue, Indianapolis, Indiana 46204 or by completing the form at [www.state.in.us/isp](http://www.state.in.us/isp). A money order or certified check must accompany the application, or a credit or debit card is needed for on-line fees. Hospital and ambulance services may require a more extensive criminal background check or drug screening. Students are responsible for the cost of these.
6. Submit a copy of the immunization records to the Program Coordinator.
7. Students are required to test and achieve a CPTS score of at least 80 in English, 89 in Reading and 35 in Math.
8. Experience: **Prior** to enrolling in the EMTP course, students **must** provide documentation showing ONE of the following:
  - a. TWO years of patient care at a service that has <2,000 runs annually
  - b. ONE year of patient care at a service that has 2,000 or more runs annually
  - c. Successfully complete **EMTB 250** (EMS Experience Course)
9. **Students must pass Entrance Testing held third Saturday every July:** (Contact **EMS Program Director** for information)
  - a. Written Exam
  - b. Practical Exam (mega-code)
  - c. Interview

**Major Program Requirements**

	<b>Credit Hours</b>
EMTP 160 Paramedic Prehospital Care I.....	7
EMTP 165 Paramedic Clinical Education I.....	5
EMTP 260 Paramedic Prehospital Care II.....	6
EMTP 265 Paramedic Clinical Education II.....	6
EMTP 290 Paramedic Clinical Education III.....	3
EMTP 291 Paramedic Clinical Education IV.....	4

**31**

<p><b>Recommended Sequence of Courses</b>          (This sequence assumes any necessary developmental requirements have been met.)</p>
<p><b>Semester I</b></p>
<p>EMTP 160 .....7          EMTP 165 .....5          Total Hours: 12</p>

*(Continued on the following page)*



Semester II	
EMTP 260 .....	6
EMTP 265 .....	6
Total Hours:	12
Summer	
EMTP 290 .....	3
EMTP 291 .....	4
Total Hours:	7

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in ENGL 009 or 011, READ 009 and 011, and MATH 011, MATT 103, 105 or 109. Students also must meet the EMTB 250 EMS Experience or Work Experience requirement in the admissions standards.

### ENTREPRENEURSHIP CERTIFICATE 5404 A One-Year Certificate of Program Completion

This certificate provides a diverse background for persons who want to start their own business. The curriculum includes several basic subject areas such as accounting, marketing, computer skills, and courses designed specifically for new business ventures. This certificate provides an excellent stepping-stone to the Business Management degree program.

	Credit Hours		
<b>Major Program Requirements</b>	<b>21</b>	<i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)	
COMP 110 Introduction to Computer Concepts .....	3		
ENTR 121 Creating A Small Business .....	3		
ENTR 230 Small Business Accounting .....	3		
ENTR 280 Small Business Problems and Concerns .....	3		
MGMT 255 Principles of Salesmanship.....	3		
MGMT 280 Introduction to Marketing .....	3		
MGMT 284 Operations Management .....	3	<b>Semester I</b>	
		COMP 110 .....	3
		ENTR 121 .....	3
		MATT 109/ MATH 101 .....	3
		MGMT 280 .....	3
		SPCH 143.....	3
		Total Hours:	15
<b>General Education Requirements</b>		<b>Semester II</b>	
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		ENTR 230 .....	3
<b>Basic Skills Core</b>	<b>6</b>	ENTR 280 .....	3
MATT 109 Business Mathematics -or-		MGMT 255 .....	3
MATH 101 Intermediate Algebra .....	3	MGMT 284 .....	3
SPCH 143 Speech .....	3	Total Hours:	12
<i>Computer Skills are enhanced by COMP 110.</i>			
	<b>27</b>		

**FAMILY AND CONSUMER SCIENCES 2300**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum prepares students to transfer to departments and schools of Family and Consumer Sciences or Home Economics to complete the baccalaureate degree. A wide spectrum of introductory courses is included, enabling students to establish and prepare for an area of specialization or to enter the education field.

	Credit Hours	Recommended Sequence of Courses (This sequence assumes any necessary developmental requirements have been met.)
<b>Major Program Requirements</b> <span style="float: right;"><b>32-33</b></span>		
FACS 100 Survey of Family and Consumer Sciences.....	1	
FACS 156 Marriage and Family .....	3	
Foods and Nutrition Elective <sup>1</sup> .....	3	
Interior Design and Housing Elective <sup>2</sup> .....	3	
Textiles and Clothing Elective <sup>3</sup> .....	3-4	
Electives .....	19	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b> <span style="float: right;"><b>9</b></span>		
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech .....	3	
<i>The Reading and Writing Intensive requirements may be met by FACS 156.</i>		
<i>The Speaking Intensive requirement may be met by FACS 151, 201, 210 or 252.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b> <span style="float: right;"><b>21</b></span>		
ARTT 130 Art History I – Pre-history to 1500 -or-		
ARTT 131 Art History II – 1500 to Present .....	3	
ECON 100 Elements of Economics -or-		
ECON 201 Microeconomics -or-		
ECON 202 Macroeconomics .....	3	
ENGL 102 English Composition II .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PSYC 141 Applied Psychology -or-		
PSYC 142 General Psychology .....	3	
Laboratory Science Elective – Common Core List .....	4	
Humanities or Science/Mathematics Elective – Broad Core List.....	3	
<i>The Computer Skills requirement is met by Computers Across the Curriculum. —</i>		
	<b>62-63</b>	
<b>Semester I</b>		
ENGL 101 .....	3	
FACS 100 .....	1	
SPCH 143 .....	3	
Elective.....	9	
Total Hours: 16		
<b>Semester II</b>		
ARTT 130/131 .....	3	
ENGL 102 .....	3	
FACS 156(R/W) .....	3	
MATH 101 .....	3	
Textiles/Clothing Elective.....	3-4	
Total Hours: 15-16		
<b>Semester III</b>		
ECON 100/201/202 ...	3	
PSYC 141/142.....	3	
Foods/Nutrition Elective(S) .....	3	
Hum/Sci/Math Elec....	3	
Electives .....	3	
Total Hours: 15		
<b>Semester IV</b>		
PFWL 100 .....	2	
Interior Design/Housing Elec(S) .....	3	
Lab Science Elec.....	4	
Electives .....	7	
Total Hours: 16		

<sup>1</sup> Students must select one of the following: FACS 206 Fundamentals of Nutrition or FACS 210 Food Preparation.

<sup>2</sup> Students must select one of the following: FACS 101 Color, Texture, and Furniture or FACS 202 Housing Design, or FACS 120 Foundations of Interior Design.

<sup>3</sup> Students must select one of the following: FACS 115 Clothing I, FACS 151 Buying in Fashion, FACS 215 Clothing II, FACS 220 Tailoring, FACS 225 Textiles, FACS 252 History of Costume, or FACS 253 Flat Pattern Design.

**FAMILY AND CONSUMER SCIENCES  
CHILD DEVELOPMENT CONCENTRATION 2301  
A Two-Year Transfer Program Leading to the A.S. or A.A.S. Degree**

This curriculum provides instruction to those students who plan to own or operate their own home-based child care business or work in a day care center in an entry-level administrative or teaching position. The curriculum also provides a solid basis for transfer to a baccalaureate institution for further study in child care, child development or other related early childhood education field. Students receive practical experience in day care settings as a part of their laboratory experience.

Credit Hours - A.A.S.		A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>		
<b>Major Program Requirements 38</b>			(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)		
ARTT 104	Design in Materials .....	3			3	
FACS 100	Survey of Family and Consumer Sciences	1			1	
FACS 130	Infant, Toddler and Child Care .....	3			3	
FACS 137	Home Management and Family Communications .....	3			3	
FACS 156	Marriage and the Family .....	3			3	
FACS 207	Nutrition for Child Care Administration and Educators .....	3			3	
FACS 210	Food Preparation .....	3			3	
FACS 235	Child Care and Curriculum Development.	3			3	
FACS 235L	Child Care Laboratory I .....	2			2	
FACS 237	Child Care Administration .....	3			3	
FACS 237L	Child Care Laboratory II .....	2			2	
HLTH 211	First Aid .....	2			2	
LITR 240	Children's Literature .....	3			-	
PSYC 242	Educational Psychology -or-					
PSYC 291	Introduction to Exceptionalities .....	3			3	
Electives	.....	1			-	
<b>General Education Requirements</b>						
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>						
<b>Basic Skills Core 9</b>						
ENGL 101	English Composition I .....	3	3			
	100-level or Higher Mathematics Course .....	3	-			
MATH 101	Intermediate Algebra (or higher mathematics) .....	-	3			
SPCH 143	Speech .....	3	3			
<i>The Reading and Writing Intensive requirements may be met by FACS 156.</i>						
<i>The Speaking Intensive requirement may be met by FACS 210.</i>						
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>						
<b>Liberal Education Core 15</b>						
ENGL 102	English Composition II .....	- 3	3			
LITR 240	Children's Literature .....	-	3			
MUSM 118	Music Appreciation .....	3	3			
PFWL 100	Lifetime Fitness/Wellness .....	2	2			
PSYC 142	General Psychology .....	3	3			
PSYC 201	Developmental Psychology .....	3	3			
	Laboratory Science Elective – Common Core List .....	4	4			
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>						
<b>62</b>			<b>34</b>			
			<b>Semester I</b>	<b>Semester I</b>		
			ENGL 101 .....3	ENGL 101 .....3		
			FACS 100 .....1	FACS 100 .....1		
			FACS 130 .....3	FACS 130 .....3		
			MUSM 118 .....3	MUSM 118 .....3		
			PSYC 142 .....3	PSYC 142 .....3		
			SPCH 143 .....3	SPCH 143 .....3		
			Total Hours: 16	Total Hours: 16		
			<b>Semester II</b>	<b>Semester II</b>		
			ARTT 104.....3	ARTT 104 .....3		
			FACS 137 .....3	ENGL 102 .....3		
			LITR 240 .....3	FACS 137 .....3		
			PFWL 100 .....2	LITR 240.....3		
			PSYC 201 .....3	PFWL 100 .....2		
			Elective.....1	PSYC 201 .....3		
			Total Hours: 15	Total Hours: 17		
			<b>Semester III</b>	<b>Semester III</b>		
			FACS 156(R/W) .....3	FACS 156(R/W).....3		
			FACS 210(S) .....3	FACS 210(S) .....3		
			FACS 235 .....3	FACS 235 .....3		
			FACS 235L .....2	FACS 235L.....2		
			HLTH 211 .....2	HLTH 211 .....2		
			Math Elective .....3	MATH 101.....3		
			Total Hours: 16	Total Hours: 16		
			<b>Semester IV</b>	<b>Semester IV</b>		
			FACS 207 .....3	FACS 207 .....3		
			FACS 237 .....3	FACS 237 .....3		
			FACS 237L .....2	FACS 237L.....2		
			PSYC 242/291 .....3	PSYC 242/291 .....3		
			Lab Science Elec... 4	Lab Science Elec... 4		
			Total Hours: 15	Total Hours: 15		
<b>64</b>						

**FAMILY AND CONSUMER SCIENCES – DIETETICS CONCENTRATION 2302**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This program allows students to begin study in family and consumer sciences with an emphasis in dietetics. Study in dietetics prepares individuals for positions in health care and educational facilities, food service management in hospitals, skilled nursing facilities, schools, university and industrial food service, residential and group care facilities, day care centers, community agencies, and also in the food and hospitality industry.

	<b>Credit Hours</b>																																																																			
<b>Major Program Requirements</b>	<b>31</b>																																																																			
FACS 100 Survey of Family and Consumer Sciences.....	1	<table border="1"> <tr> <td align="center" colspan="2"><i>Recommended Sequence of Courses</i></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>FACS 100 .....</td> <td align="right">1</td> </tr> <tr> <td>LFSC 111 .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 111L.....</td> <td align="right">1</td> </tr> <tr> <td>MATH 101 .....</td> <td align="right">3</td> </tr> <tr> <td>Chemistry Elec.....</td> <td align="right">4-5</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 14-15</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>ENGL 102 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 112 .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 112L.....</td> <td align="right">1</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td>Chemistry Elec.....</td> <td align="right">4-5</td> </tr> <tr> <td>Elective.....</td> <td align="right">2</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15-16</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>FACS 206 .....</td> <td align="right">3</td> </tr> <tr> <td>FACS 210(S) .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 210 .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 210L.....</td> <td align="right">2</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>PSYC 142 .....</td> <td align="right">3</td> </tr> <tr> <td>Humanities Elec.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>FACS 156(R/W) .....</td> <td align="right">3</td> </tr> <tr> <td>FACS Electives.....</td> <td align="right">6</td> </tr> <tr> <td>Soc Science Elec.....</td> <td align="right">3</td> </tr> <tr> <td>Elective.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> </table>	<i>Recommended Sequence of Courses</i>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		ENGL 101 .....	3	FACS 100 .....	1	LFSC 111 .....	2	LFSC 111L.....	1	MATH 101 .....	3	Chemistry Elec.....	4-5	Total Hours: 14-15		<b>Semester II</b>		ENGL 102 .....	3	LFSC 112 .....	2	LFSC 112L.....	1	SPCH 143 .....	3	Chemistry Elec.....	4-5	Elective.....	2	Total Hours: 15-16		<b>Semester III</b>		FACS 206 .....	3	FACS 210(S) .....	3	LFSC 210 .....	2	LFSC 210L.....	2	PFWL 100 .....	2	PSYC 142 .....	3	Humanities Elec.....	3	Total Hours: 18		<b>Semester IV</b>		FACS 156(R/W) .....	3	FACS Electives.....	6	Soc Science Elec.....	3	Elective.....	3	Total Hours: 15	
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LFSC 111 Anatomy and Physiology I.....	2																																																																			
LFSC 111L Anatomy and Physiology Laboratory I.....	1																																																																			
LFSC 112 Anatomy and Physiology II <sup>1</sup> .....	2																																																																			
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MATH 101 Intermediate Algebra (or higher mathematics) .....	3																																																																			
SPCH 143 Speech .....	3																																																																			
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ENGL 102 English Composition II .....	3																																																																			
PFWL 100 Lifetime Fitness/Wellness .....	2																																																																			
PSYC 142 General Psychology .....	3																																																																			
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<sup>1</sup> Students transferring to Purdue University should take LFSC 112 and LFSC 112L; others may select another three-hour elective.

<sup>2</sup> Students should select FACS courses as directed by the advisor.

<sup>3</sup> Students transferring to Purdue should take CHEM 215/215L Organic Chemistry and MATH 102 College Algebra.

<sup>4</sup> Special advising required; courses chosen depend on school of transfer. Students transferring to Purdue should take CHEM 105/105L and CHEM 106/106L General Chemistry I and II/Laboratories. Students transferring to Indiana State University should take CHEM 100/100L Elementary Chemistry/Laboratory and CHEM 101/101L Elementary Organic Chemistry and Biochemistry/Laboratory.

**FAMILY AND CONSUMER SCIENCES**  
**FASHION MERCHANDISING CONCENTRATION 2303**  
**A Two-Year Transfer Program Leading to the A.A.S. or A.S. Degree**

This program allows students to begin study in family and consumer sciences with an emphasis in Fashion Merchandising. Study in fashion merchandising prepares individuals for positions in retailing, buying, promotional work, or fashion coordination.

	Credit Hours - A.A.S.	A.S.	A.A.S.	A.S.
<b>Major Program Requirements</b>	<b>38-40</b>	<b>32</b>	<b>-34</b>	
FACS 100 Survey of Family and Consumer Sciences	1	1		
FACS 151 Buying in Fashion	3	3		
FACS 156 Marriage and the Family	3	3		
FACS 215 Clothing II -or-				
FACS 220 Tailoring -or-				
FACS 253 Flat Pattern Design	3-4	3-4		
FACS 225 Textiles	3	3		
FACS 251 Visual Merchandising	3	3		
FACS 252 History of Costume	3	3		
PSYC 142 General Psychology	3	-		
Foods and Nutrition Elective <sup>1</sup>	3	3		
Interior Design and Housing Elective <sup>2</sup>	3	3		
Textiles and Clothing Elective <sup>3</sup>	3-4	3-4		
Electives	7	4		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>		
ENGL 101 English Composition I	3	3		
100-level or Higher Mathematics Course	3	-		
MATH 101 Intermediate Algebra (or higher mathematics)	-	3		
SPCH 143 Speech	3	3		
<i>The Reading and Writing Intensive requirements may be met by FACS 156.</i>				
<i>The Speaking Intensive requirement may be met by FACS 151, 251 or 252.</i>				
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>				
<b>Liberal Education Core</b>	<b>15</b>	<b>21</b>		
ARTT 110 Art Appreciation -or-				
ARTT 130 Art History I – Pre-history to 1500 -or-				
ARTT 131 Art History II – 1500 to Present	3	3		
ECON 100 Elements of Economics -or-				
ECON 201 Microeconomics -or-				
ECON 202 Macroeconomics	3	3		
ENGL 102 Composition II	3	3		
PFWL 100 Lifetime Fitness/Wellness	2	2		
PSYC 142 General Psychology	-	3		
Laboratory Science Elective – Common Core List	4	4		
Humanities or Science/Mathematics Elective – Broad Core List	-	3		

<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
(This assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	<b>Semester I</b>
ARTT 110/130/131 .3	ARTT 110/130/131 .3
ENGL 101 .....3	ENGL 101 .....3
FACS 100 .....1	FACS 100 .....1
SPCH 143 .....3	SPCH 143 .....3
Textiles/Clothing Elective..... 3-4	Textiles/Clothing Elective ..... 3-4
Total Hours: 13-14	Total Hours: 13-14
<b>Semester II</b>	<b>Semester II</b>
ENGL 102 .....3	ENGL 102 .....3
FACS 151(S) .....3	FACS 151(S) .....3
FACS 215/220/253 ..... 3-4	FACS 215/220/253 ..... 3-4
FACS 252(S) .....3	FACS 252(S) .....3
PSYC 142 .....3	PSYC 142 .....3
Total Hours: 15-16	Total Hours: 15-16
<b>Semester III</b>	<b>Semester III</b>
FACS 156(R/W) .....3	FACS 156(R/W) .....3
PFWL 100 .....2	MATH 101 .....3
Elective(s).....3	PFWL 100 .....2
Math Elective .....3	Elective(s).....3
Foods/Nutrition Elective.....3	Foods/Nutrition Elective.....3
Interior Design/Housing Elec ..... 3	Interior Design/Housing Elec..... 3
Total Hours: 17	Total Hours: 17
<b>Semester IV</b>	<b>Semester IV</b>
ECON 100/201/202.3	ECON 100/201/202.3
FACS 225 .....3	FACS 225 .....3
FACS 251(S) .....3	FACS 251(S) .....3
Lab Science Elec .....4	Hum/Sci/Math Elec .3
Elective(s)..... 4	Lab Science Elec.....4
Total Hours: 17	Elective(s).....1 Total Hours: 17

*The Computer Skills requirement is met by Computers Across the Curriculum.* 62-64 62-64

<sup>1</sup> Students must select one of the following: FACS 206 Fundamentals of Nutrition or FACS 210 Food Preparation.  
<sup>2</sup> Students must select one of the following: FACS 101 Color, Texture, and Furniture; FACS 120 Foundations of Interior Design, or FACS 202 Housing.  
<sup>3</sup> Students must select one of the following: FACS 115 Clothing I, FACS 215 Clothing II, or FACS 220 Tailoring.



**FAMILY AND CONSUMER SCIENCES – PROFESSIONAL NANNY CERTIFICATE 2305**  
**A One-Year Certificate of Graduation Program**

Intensive training program for Child Care Professionals who will enter family homes and share in the responsibility of rearing their children. This program prepares students to meet the varied needs of the families they serve and integrate their lives with those of their employers. These duties could include adapting menus to special dietary needs, managing the day-to-day affairs of the household, aiding a handicapped or gifted child, and communicating with schools, parents, and children.

Students who wish to continue their education find that the Child Care Professional Nanny Certificate is the first step in their career ladder. These credits received at Vincennes University can be applied toward an associate's degree. This training can often be applied toward a degree in teaching or other child care professions.

After completing the following specified courses, students will receive a certificate of accreditation as a Child Care Professional Nanny from VU.

	<b>Credit Hours</b>	
ARTT 104 Design in Materials .....	3	<p align="center"><b>Recommended Sequence of Courses</b></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p align="center"><b>Semester I</b></p> <p>ENGL 101 .....3            FACS 130 .....3            FACS 140 .....2            FACS 141 .....1            FACS 156 .....3            FACS 211 .....1            HLTH 211 .....2            Total Hours: 15</p> <hr/> <p align="center"><b>Semester II</b></p> <p>ARTT 104 .....3            FACS 132 .....1            FACS 137 .....3            FACS 142 .....2            FACS 143 .....1            FACS 207 .....3            PSYC 141/142.....3            Total Hours: 16</p>
ENGL 101 English Composition I .....	3	
FACS 130 Infant, Toddler, and Child Care .....	3	
FACS 132 The Nanny as a Professional .....	1	
FACS 137 Home Management and Family Communications .....	3	
FACS 140 Field Placement I .....	2	
FACS 141 Field Placement Seminar I .....	1	
FACS 142 Field Placement II .....	2	
FACS 143 Field Placement Seminar II .....	1	
FACS 156 Marriage and the Family .....	3	
FACS 207 Nutrition for Child Care Administration and Educators .....	3	
FACS 211 Food Preparation and Nutrition Laboratory .....	1	
HLTH 211 First Aid .....	2	
PSYC 141 Applied Psychology -or-		
PSYC 142 General Psychology .....	3	
	<hr/> <b>31</b>	

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in MATH 011, MATH 103, 105 or 109. It is highly recommended that students achieve Red Cross life saving certification or intermediate swimming proficiency.

**FINE ARTS – COSTUME CONSTRUCTION CONCENTRATION 2601**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed to train persons in costume/apparel construction. Career opportunities exist in such diverse fields as musical theatre, theatre, television, and film as well as the garment industry. Some of the usual job titles are costume designer, costumer, costume technician, wardrobe supervisor, and seamstress. *Before students are allowed to matriculate in this program, they should be able to demonstrate proficiencies in basic sewing skills and have some past experience in the theatre arts.*

	<b>Credit Hours</b>																																																																	
<b>Major Program Requirements</b>	<b>37</b>																																																																	
FACS 115 Clothing I <sup>1</sup> .....	4	<table border="1"> <tr> <td align="center" colspan="2"><b>Recommended Sequence of Courses</b></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>FACS 115 .....</td> <td align="right">4</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td>Lab Science Elec .....</td> <td align="right">4</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>ARTT 110 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 102 .....</td> <td align="right">3</td> </tr> <tr> <td>FACS 215 .....</td> <td align="right">4</td> </tr> <tr> <td>FACS 225 .....</td> <td align="right">3</td> </tr> <tr> <td>THEA 101/MUSM 104 .....</td> <td align="right">1</td> </tr> <tr> <td>THEA 225(S) .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>FACS 220 .....</td> <td align="right">3</td> </tr> <tr> <td>FACS 252 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 101 .....</td> <td align="right">3</td> </tr> <tr> <td>THEA 203 .....</td> <td align="right">3</td> </tr> <tr> <td>THEA 226 .....</td> <td align="right">3</td> </tr> <tr> <td>THEA 245(R/W) .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>THEA 101/MUSM 104 .....</td> <td align="right">1</td> </tr> <tr> <td>THEA 125 .....</td> <td align="right">3</td> </tr> <tr> <td>THEA 250(R/W) .....</td> <td align="right">3</td> </tr> <tr> <td>Social Science Elec .....</td> <td align="right">6</td> </tr> <tr> <td>Humanities Elec .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> </table>	<b>Recommended Sequence of Courses</b>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		ENGL 101 .....	3	FACS 115 .....	4	PFWL 100 .....	2	SPCH 143 .....	3	Lab Science Elec .....	4	Total Hours: 16		<b>Semester II</b>		ARTT 110 .....	3	ENGL 102 .....	3	FACS 215 .....	4	FACS 225 .....	3	THEA 101/MUSM 104 .....	1	THEA 225(S) .....	3	Total Hours: 17		<b>Semester III</b>		FACS 220 .....	3	FACS 252 .....	3	MATH 101 .....	3	THEA 203 .....	3	THEA 226 .....	3	THEA 245(R/W) .....	3	Total Hours: 18		<b>Semester IV</b>		THEA 101/MUSM 104 .....	1	THEA 125 .....	3	THEA 250(R/W) .....	3	Social Science Elec .....	6	Humanities Elec .....	3	Total Hours: 16	
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FACS 252 History of Costume .....	3																																																																	
THEA 101 Theatre Production -or- MUSM 104 Musical Theatre Production .....	2																																																																	
THEA 125 Stage Make-up Design .....	3																																																																	
THEA 203 Stagecraft .....	3																																																																	
THEA 225 Theatrical Costume Construction I .....	3																																																																	
THEA 226 Theatrical Costume Construction II .....	3																																																																	
THEA 245 Theatre History I .....	3																																																																	
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<sup>1</sup> Students with sufficient sewing background are encouraged to apply for Early Completion credit.



**FINE ARTS – MUSIC, FINE ART CONCENTRATION 2450**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum provides for the first two years of training for students who wish to transfer to programs in music performance, church music, theory, composition, music management, and music therapy at the baccalaureate level. Students wishing to become elementary or high school teachers of music should follow the Elementary or Secondary Education Music Education program curriculum. Those students interested in a program which combines music and theatre courses should follow the Music Theatre program curriculum. Since requirements vary with each institution, students should check with the four-year school to which they will transfer.

<b>Major Program Requirements</b>	<b>Credit Hours</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)																																																																																
	<b>36-40</b>																																																																																	
MUSM 101 Beginning Piano Class -or- Equivalent <sup>1</sup> .....	1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left; background-color: #e0e0e0;"><b>Semester I</b></th> </tr> <tr> <td>ENGL 101 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>MUSM 101/Equiv .....</td> <td style="text-align: right;">1</td> </tr> <tr> <td>MUSM 113 .....</td> <td style="text-align: right;">1</td> </tr> <tr> <td>MUSM 115 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>PFWL 100 .....</td> <td style="text-align: right;">2</td> </tr> <tr> <td>SPCH 143 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Music Ensemble.....</td> <td style="text-align: right;">1-2</td> </tr> <tr> <td>Music Lesson-Major Area .....</td> <td style="text-align: right;">2</td> </tr> <tr> <td style="text-align: right;">Total Hours:</td> <td style="text-align: right;">16-17</td> </tr> <tr> <th colspan="2" style="text-align: left; background-color: #e0e0e0;"><b>Semester II</b></th> </tr> <tr> <td>ENGL 102 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>MUSM 102/Equiv .....</td> <td style="text-align: right;">1</td> </tr> <tr> <td>MUSM 114 .....</td> <td style="text-align: right;">1</td> </tr> <tr> <td>MUSM 116 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Humanities Elec .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Hum/Sci/Math Elec .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Music Ensemble.....</td> <td style="text-align: right;">1-2</td> </tr> <tr> <td>Music Lesson-Major Area .....</td> <td style="text-align: right;">2</td> </tr> <tr> <td style="text-align: right;">Total Hours:</td> <td style="text-align: right;">17-18</td> </tr> <tr> <th colspan="2" style="text-align: left; background-color: #e0e0e0;"><b>Semester III</b></th> </tr> <tr> <td>MATH 101/102.....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>MUSM 150 .....</td> <td style="text-align: right;">2</td> </tr> <tr> <td>MUSM 201/Equiv .....</td> <td style="text-align: right;">1</td> </tr> <tr> <td>MUSM 213 .....</td> <td style="text-align: right;">1</td> </tr> <tr> <td>MUSM 215 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Music Ensemble.....</td> <td style="text-align: right;">1-2</td> </tr> <tr> <td>Music Lesson-Major Area .....</td> <td style="text-align: right;">2</td> </tr> <tr> <td>Soc Science Elec .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td style="text-align: right;">Total Hours:</td> <td style="text-align: right;">16-17</td> </tr> <tr> <th colspan="2" style="text-align: left; background-color: #e0e0e0;"><b>Semester IV</b></th> </tr> <tr> <td>MUSM 151 .....</td> <td style="text-align: right;">2</td> </tr> <tr> <td>MUSM 202/Equiv .....</td> <td style="text-align: right;">1</td> </tr> <tr> <td>MUSM 214 .....</td> <td style="text-align: right;">1</td> </tr> <tr> <td>MUSM 216(R/W/S) .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Lab Science Elec .....</td> <td style="text-align: right;">4</td> </tr> <tr> <td>Music Ensemble.....</td> <td style="text-align: right;">1-2</td> </tr> <tr> <td>Lesson+Recital Major Area .....</td> <td style="text-align: right;">2</td> </tr> <tr> <td>Soc Sci Elec .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td style="text-align: right;">Total Hours:</td> <td style="text-align: right;">17-18</td> </tr> </table>	<b>Semester I</b>		ENGL 101 .....	3	MUSM 101/Equiv .....	1	MUSM 113 .....	1	MUSM 115 .....	3	PFWL 100 .....	2	SPCH 143 .....	3	Music Ensemble.....	1-2	Music Lesson-Major Area .....	2	Total Hours:	16-17	<b>Semester II</b>		ENGL 102 .....	3	MUSM 102/Equiv .....	1	MUSM 114 .....	1	MUSM 116 .....	3	Humanities Elec .....	3	Hum/Sci/Math Elec .....	3	Music Ensemble.....	1-2	Music Lesson-Major Area .....	2	Total Hours:	17-18	<b>Semester III</b>		MATH 101/102.....	3	MUSM 150 .....	2	MUSM 201/Equiv .....	1	MUSM 213 .....	1	MUSM 215 .....	3	Music Ensemble.....	1-2	Music Lesson-Major Area .....	2	Soc Science Elec .....	3	Total Hours:	16-17	<b>Semester IV</b>		MUSM 151 .....	2	MUSM 202/Equiv .....	1	MUSM 214 .....	1	MUSM 216(R/W/S) .....	3	Lab Science Elec .....	4	Music Ensemble.....	1-2	Lesson+Recital Major Area .....	2	Soc Sci Elec .....	3	Total Hours:	17-18
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MUSM 102 Intermediate Piano Class -or- Equivalent <sup>1</sup> .....	1																																																																																	
MUSM 113 Music Skills I .....	1																																																																																	
MUSM 114 Music Skills II .....	1																																																																																	
MUSM 115 Music Theory I.....	3																																																																																	
MUSM 116 Music Theory II .....	3																																																																																	
MUSM 150 Introduction to Music History .....	2																																																																																	
MUSM 151 Introduction to World Music.....	2																																																																																	
MUSM 201 Advanced Piano Class I -or- Equivalent <sup>1</sup> .....	1																																																																																	
MUSM 202 Advanced Piano Class II -or- Equivalent <sup>1</sup> .....	1																																																																																	
MUSM 213 Music Skills III .....	1																																																																																	
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Music Ensembles <sup>2</sup> .....	4-8																																																																																	
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MATH 102 College Algebra .....	3																																																																																	
SPCH 143 Speech -or-																																																																																		
SPCH 148 Interpersonal Communication .....	3																																																																																	
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ENGL 102 English Composition II <sup>3</sup> .....	3																																																																																	
PFWL 100 Lifetime Fitness/Wellness .....	2																																																																																	
Laboratory Science Elective – Common Core List .....	4																																																																																	
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Social Science Electives – Core List .....	6																																																																																	
Humanities or Science/Mathematics Elective – Broad Core List.....	3																																																																																	
<i>The Computer Skills requirement is met by Computers Across the Curriculum. _</i>																																																																																		
<b>66-70</b>																																																																																		

<sup>1</sup> Not required for piano majors. See explanation of equivalents under course descriptions.

<sup>2</sup> Ensembles include MUSE 150 Concert Band, MUSE 151 Jazz Ensemble, MUSE 152 Pep Band, MUSE 153 Chamber Music Ensemble, MUSE 160 Concert Choir, MUSE 161 Vincennes University Connection, and MUSE 162 Handbell Ensemble.

<sup>3</sup> Students transferring to Indiana University should substitute ENGL 210 Advanced Expository Writing for ENGL 102.

**FINE ARTS – MUSIC THEATRE CONCENTRATION 2451**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed to provide training in the performance, technical, and educational aspects of both music and theatre. Upon completion of this program, students will be prepared to transfer to a baccalaureate program in music, theatre, and/or music theatre.

	<b>Credit Hours</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
<b>Major Program Requirements</b>	<b>39</b>	
MUSM 101 Beginning Piano Class .....	1	
MUSM 102 Intermediate Piano Class .....	1	
MUSM 104 Musical Theatre Production -or-		
THEA 101 Theatre Production .....	2	
MUSM 113 Music Skills I -or- Elective <sup>1</sup> .....	1	
MUSM 114 Music Skills II -or- Elective <sup>1</sup> .....	1	
MUSM 115 Music Theory I -or- Elective <sup>1</sup> .....	3	
MUSM 116 Music Theory II -or- Elective <sup>1</sup> .....	3	
MUSV 217 Voice Major .....	6	
MUSV 290 Voice Major Recital .....	2	
SPCH 201 Voice and Articulation .....	3	
THEA 146 Fundamentals of Acting .....	3	
THEA 203 Stagecraft .....	3	
THEA 246 Acting II .....	3	
Directed Dance Electives .....	3	
Vocal Music Ensembles .....	4	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech .....	3	
<i>The Reading and Writing Intensive requirements may be met by THEA 246.</i>		
<i>The Speaking Intensive requirement may be met by SPCH 201.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>	<b>21</b>	
ENGL 102 English Composition II <sup>2</sup> .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
THEA 245 Theatre History I .....	3	
THEA 250 Theatre History II .....	3	
Laboratory Science Elective – Common Core List .....	4	
Social Science Electives – Core List .....	6	
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i> _____		
	<b>69</b>	
		<b>Semester I</b>
		ENGL 101 .....3
		MUSM 101 ..... 1
		MUSM 104/THEA 101 .....1
		MUSM 113/Elec ..... 1
		MUSM 115/Elec ..... 3
		MUSV 217 .....2
		PFWL 100 .....2
		THEA 146 .....3
		Vocal Ensemble ..... 1
		Total Hours: 17
		<b>Semester II</b>
		ENGL 102 .....3
		MUSM 102 ..... 1
		MUSM 104/THEA 101 .....1
		MUSM 114/Elec ..... 1
		MUSM 116/Elec ..... 3
		MUSV 217 .....2
		SPCH 143 .....3
		THEA 246(R/W) .....3
		Dir Dance Elec ..... 1
		Vocal Ensemble ..... 1
		Total Hours: 19
		<b>Semester III</b>
		MATH 101 .....3
		MUSV 217 .....2
		THEA 203 .....3
		THEA 245 .....3
		Social Sci Elec ..... 3
		Dir Dance Elec ..... 1
		Vocal Ensemble ..... 1
		Total Hours: 16
		<b>Semester IV</b>
		MUSV 290 .....2
		SPCH 201(S) .....3
		THEA 250 .....3
		Dir Dance Elec ..... 1
		Lab Sci Elec ..... 4
		Social Science Elec ..... 3
		Vocal Ensemble ..... 1
		Total Hours: 17

<sup>1</sup> Students planning to transfer to Ball State University should consult their advisor regarding course substitutions in music, theatre, and dance.

<sup>2</sup> Students transferring to Indiana University should substitute ENGL 210 Advanced Expository Writing for ENGL 102.

**FINE ARTS – TECHNICAL THEATRE CONCENTRATION 2603**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum provides extensive instruction in the theoretical and practical elements of design and construction for the theatre. Upon completion, the student will be able to work in all aspects of technical theatre while earning the baccalaureate degree at a transfer institution.

	<b>Credit Hours</b>																																																																					
<b>Major Program Requirements</b>	<b>37</b>																																																																					
ARTT 111 Two-Dimensional Design .....	3	<table border="1"> <thead> <tr> <th align="center" colspan="2"><i>Recommended Sequence of Courses</i></th> </tr> <tr> <td colspan="2"><i>(This sequence assumes any necessary developmental requirements have been met.)</i></td> </tr> <tr> <th align="center" colspan="2">Semester I</th> </tr> <tr> <td>ARTT 111 .....</td> <td align="right">3</td> </tr> <tr> <td>ARTT 116 .....</td> <td align="right">3</td> </tr> <tr> <td>ARTT 130 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>THEA 101/MUSM 104 .....</td> <td align="right">1</td> </tr> <tr> <td>THEA 203 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <th align="center" colspan="2">Semester II</th> </tr> <tr> <td>ARTT 114 .....</td> <td align="right">3</td> </tr> <tr> <td>ARTT 131 .....</td> <td align="right">3</td> </tr> <tr> <td>DRAF 140 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 102 .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td>THEA 101/MUSM 104 .....</td> <td align="right">1</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <th align="center" colspan="2">Semester III</th> </tr> <tr> <td>ARTT 215(S) .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 101 .....</td> <td align="right">3</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>THEA 146 .....</td> <td align="right">3</td> </tr> <tr> <td>THEA 245(R/W) .....</td> <td align="right">3</td> </tr> <tr> <td>Social Science Elec. ..</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <th align="center" colspan="2">Semester IV</th> </tr> <tr> <td>THEA 125 .....</td> <td align="right">3</td> </tr> <tr> <td>THEA 250(R/W) .....</td> <td align="right">3</td> </tr> <tr> <td>WELD 160 .....</td> <td align="right">2</td> </tr> <tr> <td>Lab Science Elec.....</td> <td align="right">4</td> </tr> <tr> <td>Social Science Elec....</td> <td align="right">3</td> </tr> <tr> <td>Approved Theatre Elective.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> </thead></table>	<i>Recommended Sequence of Courses</i>		<i>(This sequence assumes any necessary developmental requirements have been met.)</i>		Semester I		ARTT 111 .....	3	ARTT 116 .....	3	ARTT 130 .....	3	ENGL 101 .....	3	THEA 101/MUSM 104 .....	1	THEA 203 .....	3	Total Hours: 16		Semester II		ARTT 114 .....	3	ARTT 131 .....	3	DRAF 140 .....	3	ENGL 102 .....	3	SPCH 143 .....	3	THEA 101/MUSM 104 .....	1	Total Hours: 16		Semester III		ARTT 215(S) .....	3	MATH 101 .....	3	PFWL 100 .....	2	THEA 146 .....	3	THEA 245(R/W) .....	3	Social Science Elec. ..	3	Total Hours: 17		Semester IV		THEA 125 .....	3	THEA 250(R/W) .....	3	WELD 160 .....	2	Lab Science Elec.....	4	Social Science Elec....	3	Approved Theatre Elective.....	3	Total Hours: 18	
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ARTT 114 Three-Dimensional Design .....	3																																																																					
ARTT 116 Drawing I .....	3																																																																					
ARTT 215 Sculpture I .....	3																																																																					
DRAF 140 Introduction to CAD .....	3																																																																					
THEA 101 Theatre Production -or-																																																																						
MUSM 104 Musical Theatre Production .....	2																																																																					
THEA 125 Stage Make-up Design .....	3																																																																					
THEA 146 Fundamentals of Acting .....	3																																																																					
THEA 203 Stagecraft .....	3																																																																					
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<b>Liberal Education Core</b>	<b>21</b>																																																																					
ARTT 130 Art History I – Pre-history to 1500 .....	3																																																																					
ARTT 131 Art History II – 1500-Present.....	3																																																																					
ENGL 102 English Composition II .....	3																																																																					
PFWL 100 Lifetime Fitness/Wellness .....	2																																																																					
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**FINE ARTS –THEATRICAL PRODUCTION CONCENTRATION 2600**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This program is designed to provide students with instruction in the theoretical, technical, and performing aspects of educational and professional theatre. Upon completing this program, students will be prepared to work in theatre while earning the baccalaureate degree at a transfer institution. Those students interested in a program which combines music and theatre courses should follow the Music Theatre curriculum.

		Credit Hours - A.S.	A.A.		
<b>Major Program Requirements</b>		<b>34-36</b>	<b>28</b>		
LITR 229	Introduction to World Drama.....	3	3	<i>Recommended Sequence of Courses for A.S.</i> (This assumes any necessary developmental requirements have been met.)	<i>Recommended Sequence of Courses for A.A.</i> (This assumes any necessary developmental requirements have been met.)
SPCH 201	Voice and Articulation.....	3	3		
SPCH 202	Oral Interpretation of Literature.....	3	3		
THEA 101	Theatre Production -or-				
MUSM 104	Musical Theatre Production.....	2	2		
THEA 146	Fundamentals of Acting.....	3	3		
THEA 203	Stagecraft.....	3	3		
THEA 245	Theatre History I.....	3	3		
THEA 250	Theatre History II.....	3	3		
Approved Theatre Elective.....		3	3		
Music Elective.....		2	2		
Foreign Language -or- Electives <sup>1</sup> .....		6-8	-		
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>					
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>		
ENGL 101	English Composition I.....	3	3	<b>Semester I</b> ENGL 101.....3 SPCH 143.....3 THEA 146.....3 THEA 203.....3 For Lang/Elec.....3-4 Total Hours: 15-16	<b>Semester I</b> ENGL 101.....3 SPCH 143.....3 THEA 146.....3 THEA 203.....3 Foreign Lang.....4 Total Hours: 16
MATH 101	Intermediate Algebra (or higher mathematics).....	3	3		
SPCH 143	Speech.....	3	3		
<i>The Reading and Writing Intensive requirements may be met by THEA 245 or 250.</i>					
<i>The Speaking Intensive requirement may be met by SPCH 201 or 202.</i>					
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>					
<b>Liberal Education Core</b>		<b>21</b>	<b>29</b>		
ARTT 110	Art Appreciation.....	3	3	<b>Semester II</b> ENGL 102.....3 MATH 101.....3 SPCH 201(S).....3 THEA 101/MUSM 104.....1 For Lang/Elec.....3-4 Music Elective.....2 Total Hours: 15-16	<b>Semester II</b> ENGL 102.....3 MATH 101.....3 SPCH 201(S).....3 Foreign Lang.....4 THEA 101/MUSM 104.....1 Music Elective.....2 Total Hours: 16
ENGL 102	English Composition II <sup>2</sup> .....	3	3		
PFWL 100	Lifetime Fitness/Wellness.....	2	2		
PSYC 142	General Psychology.....	3	3		
SOCL 151	Principles of Sociology.....	3	3		
Laboratory Science Elective – Common Core List.....		4	4		
Literature Elective – Broad Core List.....		3	3		
Foreign Language Electives.....		-	8		
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>					
		<b>64-66</b>	<b>66</b>		
				<b>Semester III</b> ARTT 110.....3 PSYC 142.....3 THEA 101/MUSM 104.....1 THEA 245(R/W).....3 Lab Science Elec.....4 Literature Elec.....3 Total Hours: 17	<b>Semester III</b> ARTT 110.....3 THEA 245(R/W).....3 PSYC 142.....3 THEA 101/MUSM 104.....1 Lab Science Elec.....4 Literature Elec.....3 Total Hours: 17
				<b>Semester IV</b> LITR 229.....3 PFWL 100.....2 SOCL 151.....3 SPCH 202(S).....3 THEA 250(R/W).....3 Approved Theatre Elective.....3 Total Hours: 17	<b>Semester IV</b> LITR 229.....3 PFWL 100.....2 SOCL 151.....3 SPCH 202(S).....3 THEA 250(R/W).....3 Approved Theatre Elective.....3 Total Hours: 17

<sup>1</sup> Foreign language is not required for the A.S. degree; however, it is required of students transferring to Purdue University on this curriculum.

<sup>2</sup> Students transferring to Indiana University should substitute ENGL 210 Advanced Expository Writing for ENGL 102.

**FIRE SCIENCE AND SAFETY TECHNOLOGY 7350**  
**A Two-Year Program Leading to the A.A.S. and A.S. Degree**

This program is designed to prepare graduates for an entry-level position in fire service and related fields. Students will have the opportunity for testing and certification from the International Fire Science Accreditation Service (IFSAS) in selected areas. The program will provide those presently employed in the field an opportunity to obtain the needed course work to acquire a degree through Distance Education. All students are required to possess a complete set of fire gear (boots, bunker pants, suspenders, coat, hood, gloves and helmet) that is fully compliant with applicable National Fire Protection Association (NFPA) standards.<sup>1</sup> A fire fighter physical will be required for some classes. For students enrolled in the Florida Education Program: Licensed by the Commission for Independent Education, Florida Department of Education. Additional information regarding this institution may be obtained by contacting the Commission at 325 W. Gaines Street, Ste. 1414, Tallahassee, FL 32399-0400; toll free # (888) 224-6684.

	Credit Hours – A.A.S.	A.S.
<b>Major Program Requirements</b>	<b>39-42</b>	<b>36 -39</b>
EMTB 212 Emergency Medical Technician-Basic.....	6	6
FIRE 100 Introduction to the Fire Service.....	6	6
FIRE 101 Fire Protection Systems, Prevention and Education .....	3	3
FIRE 102 Building Plans, Fire Codes and Construction .....	3	3
FIRE 103 Fire Equipment and Hydraulics .....	3	3
FIRE 203 Fire Cause and Determination.....	3	3
FIRE 204 Hazardous Materials I .....	2	2
FIRE 204L Hazardous Materials Laboratory I .....	1	1
FIRE 205 Hazardous Materials II .....	2	2
FIRE 205L Hazardous Materials Laboratory II .....	1	1
FIRE 206 Firefighting Strategy and Tactics I.....	3	3
FIRE 207 Firefighting Strategy and Tactics II .....	3	3
FIRE 270 Internship in Fire Science .....	0-3	0-3
Elective .....	3	-

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>
ENGL 101 English Composition I .....	3	3
MATH 101 Intermediate Algebra (or higher mathematics) .....	-	3
100 Level or Higher Mathematics .....	3	-
SPCH 143 Speech .....	3	3

*The Reading Intensive requirement may be met by FIRE 103.  
The Writing Intensive requirement may be met by FIRE 206.  
The Speaking Intensive requirement may be met by FIRE 205.  
The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
(This assumes any necessary developmental requirements have been met.)	
Semester I	Semester I
ENGL 101 .....3	ENGL 101 .....3
FIRE 100 .....6	FIRE 100 .....6
FIRE 101 .....3	FIRE 101 .....3
Math Elective .....3	MATH 101 .....3
Total Hours: 15	Total Hours: 15
Semester II	Semester II
CHEM 120 .....3	CHEM 120 .....3
EMTB 212 .....6	EMTB 212 .....6
FIRE 102 .....3	FIRE 102 .....3
FIRE 103(R) .....3	FIRE 103(R) .....3
SPCH 143 .....3	SPCH 143 .....3
Total Hours: 18	Total Hours: 18
Semester III	Semester III
ENGL 108 .....3	ENGL 108 .....3
FIRE 204 .....2	FIRE 204 .....2
FIRE 204L .....1	FIRE 204L .....1
FIRE 206(W) .....3	FIRE 206(W) .....3
PSYC 141 or 142 .....3	PSYC 142 .....3
Elective .....3	Hum Elective .....3
Total Hours: 15	Total Hours: 15
Semester IV	Semester IV
FIRE 203 .....3	FIRE 203 .....3
FIRE 205(S) .....2	FIRE 205(S) .....2
FIRE 205L .....1	FIRE 205L .....1
FIRE 207 .....3	FIRE 207 .....3
PFWL 100 .....2	PFWL 100 .....2
POLS 112 .....3	POLS 112 .....3
Hum/Sci/Math Elec .....3	Hum/Sci/Math Elec .....3
Total Hours: 17	Total Hours: 17

<sup>1</sup> Gear brought to campus will be inspected by a qualified fire officer. At the beginning of each semester, students will have an opportunity to purchase a set of gear at a discounted price from a distributor.

<b>Liberal Education Core</b>	<b>17</b>	<b>20</b>
CHEM 120 Chemistry of Hazardous Materials.....	3	3
ENGL 108 Technical Writing .....	3	3
PFWL 100 Lifetime Fitness/Wellness .....	2	2
POLS 112 State and Local Government.....	3	3
PSYC 141 Applied Psychology -or-		
PSYC 142 General Psychology .....	3	-
PSYC 142 General Psychology .....	-	3
Humanities Elective – Common Core List .....	-	3
Humanities or Science/Mathematics Elective – Broad Core List .....	3	3

Computer Skills requirement is met by Computers Across  
the Curriculum.

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**FIRE SCIENCE AND SAFETY TECHNOLOGY 7351**  
**A Certificate of Program Completion**

This program is designed to upgrade the skills of persons in the fire protection field. These courses will count toward an A.S. degree in Fire Science and Safety Technology.

<b>Major Program Requirements</b>	<b>Credit Hours</b>	<b>Recommended Sequence of Course</b> (This sequence assumes any necessary developmental requirements have been met.)
EMTB 212 Emergency Medical Technician-Basic .....	6	
ENGL 101 English Composition I .....	3	
FIRE 100 Introduction to the Fire Service .....	6	
FIRE 102 Building Plans, Fire Codes and Construction .....	3	
FIRE 103 Fire Equipment and Hydraulics .....	3	
FIRE 203 Fire Cause and Determination .....	3	
FIRE 204 Hazardous Materials I .....	2	
FIRE 204L Hazardous Materials Laboratory I .....	1	
FIRE 206 Firefighting Strategy and Tactics I.....	3	
	<b>30</b>	
		<b>Semester I</b>
		ENGL 101 .....3
		FIRE 100 .....6
		FIRE 102 .....3
		FIRE 103 .....3
		Total Hours: 15
		<b>Semester II</b>
		EMTB 212 .....6
		FIRE 203 .....3
		FIRE 204 .....2
		FIRE 204L..... 1
		FIRE 206 ..... 3
		Total Hours: 15

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011 and MATH 011 or MATT 103, 105 or 109.

**FUNERAL SERVICE EDUCATION 6050**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This program adheres to the institutional commitment to student success in both human development and achievement of educational goals. The challenge is met by providing a comprehensive program, which includes a wide variety of educational experiences aimed at developing skills necessary for practice in funeral service, as well as knowledge that is basic to the ideal of good citizenship. This program enables students to develop the proficiency and skill necessary for entry level placement in funeral service. It also addresses those measures of public health and ethical conduct required to uphold and foster the dignity of funeral service. Upon completion of their studies at Vincennes University, the funeral service education students will be able to comply with the goals of the program. The goals of the funeral service program are: 1) the student will demonstrate the cognitive knowledge necessary for satisfactory performance in an entry-level funeral service position; 2) the student will demonstrate an ability to perform basic embalming techniques; 3) the student will be able to apply the cognitive knowledge in a practical setting working in an entry-level funeral service position. Successful completion of the A.S. Program allows students to transfer to a baccalaureate institution.

The Funeral Service Education Program at Vincennes University is accredited by the American Board of Funeral Service Education (ABFSE), 3432 Ashland Avenue, Suite U, St. Joseph, MO 64506 (816) 233-3747. Website: [www.abfse.org](http://www.abfse.org)

**Admission Requirements**

1. Meet admission requirements for the University.
2. Complete READ 011 with a grade of "C" or higher or qualify for exemption from READ 011 as determined by placement test scores (e.g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University).
3. Qualify for placement into MATH 012 as determined by the Vincennes University Accuplacer test.
4. Complete ENGL 011 with a grade of "C" or higher or qualify for placement into ENGL 101 as determined by placement test scores (e.g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University).

**Standards for Progression and Graduation**

Funeral Service Education students must achieve a minimum grade of C in each Funeral Service Education (FNRL) course, and Science course and maintain a 2.0 semester average, based on grade point average (GPA) for current semester.

All students are required to take the National Board Examination immediately prior to graduation. This exam is given by the International Conference of Funeral Service Examining Boards and is taken at the student's own expense.

The annual passage rate of first time takers on the National Board Examination (NBE) for the most recent three year period for this institution and all ABFSE accredited funeral service education programs is posted on the ABFSE website ([www.abfse.org](http://www.abfse.org)).

The annual passage rates for Vincennes University's Funeral Service Education Program are also posted on the Vincennes University website ([www.vinu.edu](http://www.vinu.edu) for the Funeral Service Education Program).

		Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>		<b>43</b>	<b>45</b>		
ACCT 201	Principles of Accounting I .....	3	3		
FNRL 100	Funeral History .....	2	2	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
FNRL 120	Restorative Art.....	3	3		
FNRL 120L	Restorative Art Lab .....	1	1		
FNRL 125	Embalming Orientation.....	2	2		
FNRL 130	Funeral Service Merchandising .....	2	2		
FNRL 140	Funeral Home Operations .....	2	2		
FNRL 200	Funeral Service Law .....	3	3		
FNRL 220	Embalming Principles .....	3	3		
FNRL 220L	Embalming Principles Laboratory .....	1	1		
FNRL 230	Psychological Aspects of Grief and Death .....	3	3		
FNRL 240	Funeral Directing Concepts .....	3	3		
FNRL 250	Embalming Theory and Practice.....	3	3		
				<b>Semester I</b>	<b>Semester I</b>
				ENGL 101 .....3	ENGL 101 .....3
				FNRL 100 .....2	FNRL 100 .....2
				FNRL 120 .....3	FNRL 120 .....3
				FNRL 120L .....1	FNRL 120L .....1
				LFSC 107 .....3	LFSC 107 .....3
				LFSC 107L .....1	LFSC 107L .....1
				Total Hours: 13	PSYC 142 .....3
					Total Hours: 16

(Continued on the following page)

FNRL 250L	Embalming Theory and Practice Laboratory.....	1	1
FNRL 260	Funeral Management .....	3	3
FNRL 260L	Funeral Management Laboratory.....	1	1
FNRL 285	Pathology .....	3	3
FNRL 290	Seminar in Funeral Service Education.....	2	2
LFSC 210	Microbiology .....	2	2
LFSC 210L	Microbiology Laboratory.....	-	2

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>
ENGL 101	English Composition I .....	3	3
MATH 101	Intermediate Algebra .....	-	3
	100-level or Higher Mathematics Course .....	3	-
SPCH 143	Speech.....	3	3

*The Reading Intensive requirement may be met by FNRL 260.*

*The Writing and Speaking Intensive requirements may be met by FNRL 260L.*

*The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

**Liberal Education Core** **19-20 22-23**

CHEM 101	Elementary Organic Chemistry and Biochemistry -and-		
CHEM 101L	Elementary Organic Chemistry and Biochemistry Laboratory -or-		
CHEM 110	General, Organic and Biochemistry .....	4-5	4-5
ENGL 102	English Composition II .....	3	3
LFSC 107	Essentials of Human Anatomy and Physiology I .....	3	3
LFSC 107L	Essentials of Human Anatomy and Physiology I Lab .....	1	1
PFWL 100	Lifetime Fitness/Wellness .....	2	2
PSYC 142	General Psychology .....	3	3
SOCL 151	Principles of Sociology .....	3	3
	Humanities Elective – Common Core List .....	-	3

*Computer Skills are enhanced by FNRL 260L.*

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Semester II	Semester II
CHEM 101 -and- CHEM 101L -or- CHEM 110 .....4-5 ENGL 102 .....3 FNRL 125 .....2 FNRL 130 .....2 FNRL 140 .....2 SPCH 143 .....3 Total Hours: 16-17	CHEM 101 -and- CHEM 101L -or- CHEM 110 .....4-5 ENGL 102 .....3 FNRL 125 .....2 FNRL 130 .....2 FNRL 140 .....2 MATH 101 .....3 Total Hours: 16-17
Summer	Summer
ACCT 201 .....3 PSYC 142 .....3 SOCL 151 .....3 Math Elec .....3 Total Hours: 12	ACCT 201 .....3 SOCL 151 .....3 SPCH 143 .....3 Humanities Elec .....3 Total Hours: 12
Semester III	Semester III
FNRL 200 .....3 FNRL 220 .....3 FNRL 220L .....1 FNRL 240 .....3 FNRL 285 .....3 LFSC 210 .....2 Total Hours: 15	FNRL 200 .....3 FNRL 220 .....3 FNRL 220L .....1 FNRL 240 .....3 FNRL 285 .....3 LFSC 210 .....2 LFSC 210L .....2 Total Hours: 17
Semester IV	Semester IV
FNRL 230 .....3 FNRL 250 .....3 FNRL 250L .....1 FNRL 260(R) .....3 FNRL 260L(W/S) ....1 FNRL 290 .....2 PFWL 100 .....2 Total Hours: 15	FNRL 230 .....3 FNRL 250 .....3 FNRL 250L .....1 FNRL 260(R) .....3 FNRL 260L(W/S) ....1 FNRL 290 .....2 PFWL 100 .....2 Total Hours: 15



**GENERAL SCIENCE – AGRICULTURE CONCENTRATION 4030**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This is a cooperative undergraduate program between Vincennes University and Purdue University. Upon completing the A.S. Degree, students may transfer directly to Purdue to pursue the baccalaureate degree in any one of several options in the School of Agriculture, transfer to other baccalaureate institutions, return directly to the farm, or immediately enter an agriculture-oriented profession. High school prerequisites are one and a half years' algebra (elementary and advanced), one year plane geometry, one half-year trigonometry or solid geometry; laboratory sciences in biology and chemistry are strongly recommended. If needed, these courses are available at Vincennes University.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>35</b>	
AGRI 100 Agriculture Lectures .....	1	
AGRI 101 Introductory Agricultural Business and Economics.....	3	
AGRI 103 Fundamentals of Horticulture .....	3	
AGRI 104 Crop Production .....	3	
AGRI 106 Animal Agriculture .....	3	
CHEM 106 General Chemistry II.....	3	
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2	
LFSC 105 Principles of Life Science I.....	3	
LFSC 105L Principles of Life Science Laboratory I .....	1	
LFSC 106 Principles of Life Science II .....	3	
LFSC 106L Principles of Life Science Laboratory II.....	1	
Sophomore Agriculture Electives .....	6	
Approved Elective by Option .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 115 Survey of Calculus I .....	3	
SPCH 143 Speech .....	3	
<i>The Reading Intensive requirement may be met by LFSC 106.</i>		
<i>The Writing Intensive requirement may be met by CHEM 106L.</i>		
<i>The Speaking Intensive requirement may be met by AGRI 104.</i>		
<i>The Mathematics Intensive requirement may be met by MATH 115.</i>		
<b>Liberal Education Core</b>	<b>19</b>	
CHEM 105 General Chemistry I .....	3	
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2	
ECON 201 Microeconomics .....	3	
ENGL 102 English Composition II .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
Humanities Elective – Common Core List .....	3	
Social Science Elective – Core List .....	3	
<i>Computer Skills are enhanced by CHEM 105L.</i>		
	<b>63</b>	

<b>Recommended Sequence of Courses</b>	
<i>(This sequence assumes any necessary developmental requirements have been met.)</i>	
<b>Semester I</b>	
AGRI 100 .....	1
AGRI 106 .....	3
CHEM 105 .....	3
CHEM 105L.....	2
ENGL 101 .....	3
SPCH 143.....	3
Total Hours: 15	
<b>Semester II</b>	
AGRI 101 .....	3
AGRI 104(S) .....	3
CHEM 106 .....	3
CHEM 106L(W) .....	2
PFWL 100 .....	2
Humanities Elec .....	3
Total Hours: 16	
<b>Semester III</b>	
AGRI 103 .....	3
ECON 201 .....	3
ENGL 102 .....	3
LFSC 105 .....	3
LFSC 105L.....	1
Soph Agriculture Elective.....	3
Total Hours: 16	
<b>Semester IV</b>	
LFSC 106(R) .....	3
LFSC 106L.....	1
MATH 115(M) .....	3
Approved Elective by Option.....	3
Soph Agriculture Elective.....	3
Soc Science Elec .....	3
Total Hours: 16	

**GENERAL SCIENCE – EARTH SCIENCES CONCENTRATION 4240**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed to prepare students for transfer to four-year institutions. Students selecting this curriculum are primarily interested in teaching earth science, or obtaining an introduction to such other fields as meteorology, geology, or geography.

	<b>Credit Hours</b>																																																																					
<b>Major Program Requirements</b>	<b>36</b>																																																																					
ERTH 100 Earth Science .....	4	<table border="1"> <thead> <tr> <th align="center" colspan="2"><i>Recommended Sequence of Courses</i></th> </tr> <tr> <td colspan="2"><i>(This sequence assumes any necessary developmental requirements have been met.)</i></td> </tr> <tr> <th align="center" colspan="2">Semester I</th> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 105 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 115 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 115L .....</td> <td align="right">2</td> </tr> <tr> <td>ERTH 210 .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <th align="center" colspan="2">Semester II</th> </tr> <tr> <td>ENGL 102 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 101(S) .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 207 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 208 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 216 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 216L .....</td> <td align="right">1</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <th align="center" colspan="2">Semester III</th> </tr> <tr> <td>ERTH 100 .....</td> <td align="right">4</td> </tr> <tr> <td>ERTH 111(R) .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 204 .....</td> <td align="right">3</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>Humanities Elec .....</td> <td align="right">3</td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <th align="center" colspan="2">Semester IV</th> </tr> <tr> <td>ERTH 112(W) .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 214 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 214L .....</td> <td align="right">1</td> </tr> <tr> <td>ERTH 221 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 102(M) .....</td> <td align="right">3</td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> </thead></table>	<i>Recommended Sequence of Courses</i>		<i>(This sequence assumes any necessary developmental requirements have been met.)</i>		Semester I		ENGL 101 .....	3	ERTH 105 .....	3	ERTH 115 .....	3	ERTH 115L .....	2	ERTH 210 .....	3	SPCH 143 .....	3	Total Hours: 17		Semester II		ENGL 102 .....	3	ERTH 101(S) .....	3	ERTH 207 .....	3	ERTH 208 .....	3	ERTH 216 .....	3	ERTH 216L .....	1	Total Hours: 16		Semester III		ERTH 100 .....	4	ERTH 111(R) .....	3	ERTH 204 .....	3	PFWL 100 .....	2	Humanities Elec .....	3	Soc Sci Elective .....	3	Total Hours: 18		Semester IV		ERTH 112(W) .....	3	ERTH 214 .....	3	ERTH 214L .....	1	ERTH 221 .....	3	MATH 102(M) .....	3	Soc Sci Elective .....	3	Total Hours: 16	
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ERTH 101 Environmental Science .....	3																																																																					
ERTH 105 Geography of Indiana .....	3																																																																					
ERTH 111 Introduction to Remote Sensing .....	3																																																																					
ERTH 112 Geographic Information Systems (GIS) .....	3																																																																					
ERTH 207 World Geography .....	3																																																																					
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ERTH 210 General Astronomy .....	3																																																																					
ERTH 214 Historical Geology .....	3																																																																					
ERTH 214L Historical Geology Laboratory .....	1																																																																					
ERTH 216 Mineralogy .....	3																																																																					
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ERTH 221 Meteorology .....	3																																																																					
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MATH 102 College Algebra .....	3																																																																					
SPCH 143 Speech .....	3																																																																					
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ERTH 115L Physical Geology Laboratory .....	2																																																																					
ERTH 204 Oceanography .....	3																																																																					
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**GENERAL SCIENCE – FOOD SCIENCE CONCENTRATION 4031**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This major will transfer to most schools, but is especially designed for Purdue University Schools of Agriculture and Consumer and Family Science. Students with a bachelor's degree in this option have excellent job and graduate school opportunities.

	<b>Credit Hours</b>																																																																											
<b>Major Program Requirements</b>	<b>36</b>																																																																											
CHEM 106 General Chemistry II.....	3	<table border="1"> <thead> <tr> <th align="center" colspan="2"><i>Recommended Sequence of Courses</i></th> </tr> <tr> <td colspan="2"><i>(This sequence assumes any necessary developmental requirements have been met.)</i></td> </tr> <tr> <th align="center" colspan="2">Semester I</th> </tr> <tr> <td>CHEM 105 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 105L.....</td> <td align="right">2</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105L.....</td> <td align="right">1</td> </tr> <tr> <td>MATH 115(M) .....</td> <td align="right">3</td> </tr> <tr> <td>PFWL 100.....</td> <td align="right">2</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <th align="center" colspan="2">Semester II</th> </tr> <tr> <td>CHEM 106(R) .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 106L.....</td> <td align="right">2</td> </tr> <tr> <td>ENGL 102 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 106 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 106L.....</td> <td align="right">1</td> </tr> <tr> <td>MATH 116 .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 143.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <th align="center" colspan="2">Semester III</th> </tr> <tr> <td>CHEM 215 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 215L(W/S) .....</td> <td align="right">2</td> </tr> <tr> <td>ECON 201 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 230 .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 230L.....</td> <td align="right">2</td> </tr> <tr> <td>PHYS 105 .....</td> <td align="right">4</td> </tr> <tr> <td>PHYS 105L.....</td> <td align="right">1</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <th align="center" colspan="2">Semester IV</th> </tr> <tr> <td>CHEM 216 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 216L.....</td> <td align="right">2</td> </tr> <tr> <td>FACS 206 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 110 .....</td> <td align="right">3</td> </tr> <tr> <td>Human Elec.....</td> <td align="right">3</td> </tr> <tr> <td>Soc Sci Elec .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> </thead></table>	<i>Recommended Sequence of Courses</i>		<i>(This sequence assumes any necessary developmental requirements have been met.)</i>		Semester I		CHEM 105 .....	3	CHEM 105L.....	2	ENGL 101 .....	3	LFSC 105 .....	3	LFSC 105L.....	1	MATH 115(M) .....	3	PFWL 100.....	2	Total Hours: 17		Semester II		CHEM 106(R) .....	3	CHEM 106L.....	2	ENGL 102 .....	3	LFSC 106 .....	3	LFSC 106L.....	1	MATH 116 .....	3	SPCH 143.....	3	Total Hours: 18		Semester III		CHEM 215 .....	3	CHEM 215L(W/S) .....	2	ECON 201 .....	3	LFSC 230 .....	2	LFSC 230L.....	2	PHYS 105 .....	4	PHYS 105L.....	1	Total Hours: 17		Semester IV		CHEM 216 .....	3	CHEM 216L.....	2	FACS 206 .....	3	MATH 110 .....	3	Human Elec.....	3	Soc Sci Elec .....	3	Total Hours: 17	
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CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2																																																																											
CHEM 215 Organic Chemistry I .....	3																																																																											
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FACS 206 Fundamentals of Nutrition .....	3																																																																											
LFSC 105 Principles of Life Science I.....	3																																																																											
LFSC 105L Principles of Life Science Laboratory I .....	1																																																																											
LFSC 106 Principles of Life Science II .....	3																																																																											
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LFSC 230 General Microbiology .....	2																																																																											
LFSC 230L General Microbiology Laboratory .....	2																																																																											
MATH 110 Statistics .....	3																																																																											
MATH 116 Survey of Calculus II.....	3																																																																											
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CHEM 105 General Chemistry I .....	3																																																																											
CHEM 105L General Chemistry/Quantitative Analysis Laboratory.....	2																																																																											
ECON 201 Microeconomics .....	3																																																																											
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<sup>1</sup> Students should select from the following Humanities Common Core courses based on where they plan to transfer: ARTT 110 Art Appreciation, LITR 220 Introduction to World Literature I, LITR 222 American Literature I, MUSM 118 Music Appreciation, PHIL 111 Introduction to Philosophy and PHIL 112 Introduction to Ethics.

<sup>2</sup> Students should select from the following Social Science courses based on where they plan to transfer: ECON 201 Microeconomics, ECON 202 Macroeconomics, HIST 139/140 American History I/II, HIST 235/236 World Civilization I/II, POLS 111 American National Government, POLS 112 State and Local Government, PSYC 142 General Psychology and SOCL 151 Principles of Sociology.

**GENERAL SCIENCE – FORESTRY AND CONSERVATION CONCENTRATION 4420**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

While most students enrolled in this curriculum transfer to Purdue University, it also prepares students to transfer to other institutions to pursue the baccalaureate degree in forestry and conservation. Specific degree requirements at transfer institutions should be carefully checked and followed.

		<b>Credit Hours</b>																																																																							
<b>Major Program Requirements</b>		<b>35</b>																																																																							
AGRI 100	Agriculture Lectures .....	1	<table border="1"> <thead> <tr> <th align="center" colspan="2"><i>Recommended Sequence of Courses</i></th> </tr> <tr> <td colspan="2"><i>(This sequence assumes any necessary developmental requirements have been met.)</i></td> </tr> <tr> <th align="center" colspan="2">Semester I</th> </tr> <tr> <td>AGRI 100 .....</td> <td align="right">1</td> </tr> <tr> <td>CHEM 105 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 105L .....</td> <td align="right">2</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 115 .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> <tr> <th align="center" colspan="2">Semester II</th> </tr> <tr> <td>CHEM 106 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 106L(W) .....</td> <td align="right">2</td> </tr> <tr> <td>ENGL 102 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 101(S) .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 112 .....</td> <td align="right">3</td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <th align="center" colspan="2">Semester III</th> </tr> <tr> <td>AGRI 225 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 111 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 208 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105L .....</td> <td align="right">1</td> </tr> <tr> <td>MATH 116 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <th align="center" colspan="2">Semester IV</th> </tr> <tr> <td>AGRI 204 .....</td> <td align="right">3</td> </tr> <tr> <td>ECON 201 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 106(R) .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 106L .....</td> <td align="right">1</td> </tr> <tr> <td>MATH 110(M) .....</td> <td align="right">3</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>Humanities Elec .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> </thead></table>	<i>Recommended Sequence of Courses</i>		<i>(This sequence assumes any necessary developmental requirements have been met.)</i>		Semester I		AGRI 100 .....	1	CHEM 105 .....	3	CHEM 105L .....	2	ENGL 101 .....	3	MATH 115 .....	3	SPCH 143 .....	3	Total Hours: 15		Semester II		CHEM 106 .....	3	CHEM 106L(W) .....	2	ENGL 102 .....	3	ERTH 101(S) .....	3	ERTH 112 .....	3	Soc Sci Elective .....	3	Total Hours: 17		Semester III		AGRI 225 .....	3	ERTH 111 .....	3	ERTH 208 .....	3	LFSC 105 .....	3	LFSC 105L .....	1	MATH 116 .....	3	Total Hours: 16		Semester IV		AGRI 204 .....	3	ECON 201 .....	3	LFSC 106(R) .....	3	LFSC 106L .....	1	MATH 110(M) .....	3	PFWL 100 .....	2	Humanities Elec .....	3	Total Hours: 18	
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<b>Liberal Education Core</b>		<b>22</b>																																																																							
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**GENERAL SCIENCE – GEOGRAPHY CONCENTRATION 4450**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed to prepare students for transfer to other institutions to pursue the baccalaureate degree. Specific degree requirements at transfer institutions may vary, thus should be checked in advance and carefully followed. Geography majors usually plan to teach in the field of geography, work as urban planners, cartographers, and/or in business and social science fields.

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ECON 202    Macroeconomics .....	3	<table border="1"> <tr> <td align="center" colspan="2"><i>Recommended Sequence of Courses</i></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">4</td> </tr> <tr> <td>ERTH 100 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 105 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 210 .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>ECON 201 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 102 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 115 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 115L .....</td> <td align="right">2</td> </tr> <tr> <td>ERTH 207 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 208 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>ERTH 101(S) .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 111(R) .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 204 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 102(M) .....</td> <td align="right">3</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>Humanities Elec .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>ECON 202 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 112(W) .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 221 .....</td> <td align="right">3</td> </tr> <tr> <td>POLS 211 .....</td> <td align="right">3</td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> </table>	<i>Recommended Sequence of Courses</i>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		ENGL 101 .....	4	ERTH 100 .....	3	ERTH 105 .....	3	ERTH 210 .....	3	SPCH 143 .....	3	Total Hours: 16		<b>Semester II</b>		ECON 201 .....	3	ENGL 102 .....	3	ERTH 115 .....	3	ERTH 115L .....	2	ERTH 207 .....	3	ERTH 208 .....	3	Total Hours: 17		<b>Semester III</b>		ERTH 101(S) .....	3	ERTH 111(R) .....	3	ERTH 204 .....	3	MATH 102(M) .....	3	PFWL 100 .....	2	Humanities Elec .....	3	Total Hours: 17		<b>Semester IV</b>		ECON 202 .....	3	ERTH 112(W) .....	3	ERTH 221 .....	3	POLS 211 .....	3	Soc Sci Elective .....	3	Total Hours: 15	
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ERTH 208    Principles of Conservation .....	3																																																																	
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<b>Liberal Education Core</b>	<b>21</b>																																																																	
ECON 201    Microeconomics .....	3																																																																	
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**GENERAL SCIENCE – GEOLOGY CONCENTRATION 4480**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum prepares students for transfer to most four-year institutions for the pursuit of the B.S. degree. Geology majors pursue careers in oil and mineral exploration, ground water management, and advisory roles for analysis of bedrock in transportation, construction and related industries. Teaching is also a viable option.

	<b>Credit Hours</b>																																																																			
<b>Major Program Requirements</b>	<b>31</b>																																																																			
CHEM 106 General Chemistry II.....	3	<table border="1"> <thead> <tr> <th align="center" colspan="2"><i>Recommended Sequence of Courses</i></th> </tr> <tr> <td colspan="2"><i>(This sequence assumes any necessary developmental requirements have been met.)</i></td> </tr> <tr> <th align="center" colspan="2">Semester I</th> </tr> <tr> <td>CHEM 105 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 105L.....</td> <td align="right">2</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 115 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 115L.....</td> <td align="right">2</td> </tr> <tr> <td>SPCH 143.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <th align="center" colspan="2">Semester II</th> </tr> <tr> <td>CHEM 106(R) .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 106L(W) .....</td> <td align="right">2</td> </tr> <tr> <td>ERTH 101(S) .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 216 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 216L.....</td> <td align="right">1</td> </tr> <tr> <td>MATH 118(M).....</td> <td align="right">5</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <th align="center" colspan="2">Semester III</th> </tr> <tr> <td>ERTH 204 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 119 .....</td> <td align="right">5</td> </tr> <tr> <td>PHYS 105 .....</td> <td align="right">4</td> </tr> <tr> <td>PHYS 105L.....</td> <td align="right">1</td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <th align="center" colspan="2">Semester IV</th> </tr> <tr> <td>ENGL 102 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 214 .....</td> <td align="right">3</td> </tr> <tr> <td>ERTH 214L.....</td> <td align="right">1</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>Humanities Elec.....</td> <td align="right">3</td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> </thead></table>	<i>Recommended Sequence of Courses</i>		<i>(This sequence assumes any necessary developmental requirements have been met.)</i>		Semester I		CHEM 105 .....	3	CHEM 105L.....	2	ENGL 101 .....	3	ERTH 115 .....	3	ERTH 115L.....	2	SPCH 143.....	3	Total Hours: 16		Semester II		CHEM 106(R) .....	3	CHEM 106L(W) .....	2	ERTH 101(S) .....	3	ERTH 216 .....	3	ERTH 216L.....	1	MATH 118(M).....	5	Total Hours: 17		Semester III		ERTH 204 .....	3	MATH 119 .....	5	PHYS 105 .....	4	PHYS 105L.....	1	Soc Sci Elective .....	3	Total Hours: 16		Semester IV		ENGL 102 .....	3	ERTH 214 .....	3	ERTH 214L.....	1	PFWL 100 .....	2	Humanities Elec.....	3	Soc Sci Elective .....	3	Total Hours: 15	
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CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2																																																																			
ERTH 101 Environmental Science .....	3																																																																			
ERTH 115 Physical Geology .....	3																																																																			
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ERTH 214 Historical Geology .....	3																																																																			
ERTH 214L Historical Geology Laboratory .....	1																																																																			
ERTH 216 Mineralogy .....	3																																																																			
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MATH 119 Calculus with Analytic Geometry II .....	5																																																																			
PHYS 105 General Physics I <sup>1</sup> .....	4																																																																			
PHYS 105L General Physics Laboratory I <sup>1</sup> .....	1																																																																			
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<b>Liberal Education Core</b>	<b>22</b>																																																																			
CHEM 105 General Chemistry I .....	3																																																																			
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	<b>64</b>																																																																			

<sup>1</sup> Students transferring to Indiana University may substitute LFSC 105/105L Principles of Life Science I and Laboratory.

**GENERAL SCIENCE**  
**NATURAL RESOURCES AND ENVIRONMENTAL SCIENCE CONCENTRATION 4750**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This program is primarily designed for transfer to baccalaureate institutions. Students wishing to transfer should check specific requirements at respective institutions.

	<b>Credit Hours</b>		
<b>Major Program Requirements</b>	<b>32</b>		
AGRI 100 Agriculture Lectures .....	1	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>AGRI 100 .....1            CHEM 105 .....3            CHEM 105L.....2            ENGL 101 .....3            EARTH 111(R) .....3            SPCH 143 .....3            Total Hours: 15</p> <hr/> <p><b>Semester II</b></p> <p>ERTH 112(W) .....3            EARTH 204 .....3            EARTH 208 .....3            EARTH 221 .....3            MATH 102(M) .....3            Soc Sci Elective ..... 3            Total Hours: 18</p> <hr/> <p><b>Semester III</b></p> <p>ERTH 101(S) .....3            EARTH 115 .....3            EARTH 115L.....2            LFSC 105 .....3            LFSC 105L.....1            PFWL 100 ..... 2            Total Hours: 14</p> <hr/> <p><b>Semester IV</b></p> <p>AGRI 204 .....3            ECON 201 .....3            ENGL 102 .....3            LFSC 106 .....3            LFSC 106L.....1            Humanities Elec ..... 3            Total Hours: 16</p>	
AGRI 204 Soil Science .....	3		
ERTH 111 Introduction to Remote Sensing .....	3		
ERTH 112 Geographic Information Systems (GIS) .....	3		
ERTH 115 Physical Geology .....	3		
ERTH 115L Physical Geology Laboratory .....	2		
ERTH 204 Oceanography .....	3		
ERTH 208 Principles of Conservation .....	3		
ERTH 221 Meteorology .....	3		
LFSC 105 Principles of Life Science I .....	3		
LFSC 105L Principles of Life Science Laboratory I .....	1		
LFSC 106 Principles of Life Science II.....	3		
LFSC 106L Principles of Life Science Laboratory II.....	1		
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b>	<b>9</b>		
ENGL 101 English Composition I .....	3		
MATH 102 College Algebra .....	3		
SPCH 143 Speech .....	3		
<p><i>The Reading Intensive requirement may be met by EARTH 111.</i>  <i>The Writing Intensive requirement may be met by EARTH 112.</i>  <i>The Speaking Intensive requirement may be met by EARTH 101.</i>  <i>The Mathematics Intensive requirement may be met by MATH 115.</i></p>			
<b>Liberal Education Core</b>	<b>22</b>		
CHEM 105 General Chemistry I .....	3		
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2		
ECON 201 Microeconomics .....	3		
ENGL 102 English Composition II .....	3		
ERTH 101 Environmental Science .....	3		
PFWL 100 Lifetime Fitness/Wellness .....	2		
Humanities Elective – Common Core List .....	3		
Social Science Elective – Core List .....	3		
<p><i>Computer Skills are enhanced EARTH 101. ___</i></p>			
	<b>63</b>		

**GENERAL SCIENCE – PRE-VETERINARY CONCENTRATION 4890**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This program is designed primarily for transfer to Purdue University<sup>1</sup>. Students planning to transfer elsewhere should check specific requirements of the respective institution. Students entering this program are advised to complete the following high school prerequisites: one and a half years algebra (elementary and advanced), one year plane geometry, one half year trigonometry or solid geometry; laboratory sciences in biology and chemistry are strongly recommended. If needed, these courses are available at Vincennes University.

	<b>Credit Hours</b>																																																																																			
<b>Major Program Requirements</b>	<b>42</b>																																																																																			
AGRI 100 Agriculture Lectures .....	1	<table border="1"> <tr> <td align="center" colspan="2"><b>Recommended Sequence of Courses</b></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>AGRI 100 .....</td> <td align="right">1</td> </tr> <tr> <td>CHEM 105 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 105L.....</td> <td align="right">2</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105L.....</td> <td align="right">1</td> </tr> <tr> <td>MATH 115(M).....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>CHEM 106 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 106L(W) .....</td> <td align="right">2</td> </tr> <tr> <td>LFSC 106(R) .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 106L.....</td> <td align="right">1</td> </tr> <tr> <td>MATH 110 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 116 .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <td align="center" colspan="2"><b>Summer</b></td> </tr> <tr> <td>SOCL 151 .....</td> <td align="right">3</td> </tr> <tr> <td>Humanities Elec .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 6</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>ECON 202/POLS 201 3</td> <td></td> </tr> <tr> <td>ENGL 102 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 215 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 215L(S) .....</td> <td align="right">2</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>PHYS 105 .....</td> <td align="right">4</td> </tr> <tr> <td>PHYS 105L .....</td> <td align="right">1</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>AGRI 206 .....</td> <td align="right">3</td> </tr> <tr> <td>AGRI 208 .....</td> <td align="right">4</td> </tr> <tr> <td>CHEM 216 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 216L.....</td> <td align="right">2</td> </tr> <tr> <td>PHYS 106 .....</td> <td align="right">4</td> </tr> <tr> <td>PHYS 106L.....</td> <td align="right">1</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> </table>	<b>Recommended Sequence of Courses</b>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		AGRI 100 .....	1	CHEM 105 .....	3	CHEM 105L.....	2	ENGL 101 .....	3	LFSC 105 .....	3	LFSC 105L.....	1	MATH 115(M).....	3	Total Hours: 16		<b>Semester II</b>		CHEM 106 .....	3	CHEM 106L(W) .....	2	LFSC 106(R) .....	3	LFSC 106L.....	1	MATH 110 .....	3	MATH 116 .....	3	SPCH 143 .....	3	Total Hours: 18		<b>Summer</b>		SOCL 151 .....	3	Humanities Elec .....	3	Total Hours: 6		<b>Semester III</b>		ECON 202/POLS 201 3		ENGL 102 .....	3	CHEM 215 .....	3	CHEM 215L(S) .....	2	PFWL 100 .....	2	PHYS 105 .....	4	PHYS 105L .....	1	Total Hours: 18		<b>Semester IV</b>		AGRI 206 .....	3	AGRI 208 .....	4	CHEM 216 .....	3	CHEM 216L.....	2	PHYS 106 .....	4	PHYS 106L.....	1	Total Hours: 17	
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CHEM 106 .....	3																																																																																			
CHEM 106L(W) .....	2																																																																																			
LFSC 106(R) .....	3																																																																																			
LFSC 106L.....	1																																																																																			
MATH 110 .....	3																																																																																			
MATH 116 .....	3																																																																																			
SPCH 143 .....	3																																																																																			
Total Hours: 18																																																																																				
<b>Summer</b>																																																																																				
SOCL 151 .....	3																																																																																			
Humanities Elec .....	3																																																																																			
Total Hours: 6																																																																																				
<b>Semester III</b>																																																																																				
ECON 202/POLS 201 3																																																																																				
ENGL 102 .....	3																																																																																			
CHEM 215 .....	3																																																																																			
CHEM 215L(S) .....	2																																																																																			
PFWL 100 .....	2																																																																																			
PHYS 105 .....	4																																																																																			
PHYS 105L .....	1																																																																																			
Total Hours: 18																																																																																				
<b>Semester IV</b>																																																																																				
AGRI 206 .....	3																																																																																			
AGRI 208 .....	4																																																																																			
CHEM 216 .....	3																																																																																			
CHEM 216L.....	2																																																																																			
PHYS 106 .....	4																																																																																			
PHYS 106L.....	1																																																																																			
Total Hours: 17																																																																																				
CHEM 215 Organic Chemistry I .....	3																																																																																			
CHEM 215L Organic Chemistry Laboratory I .....	2																																																																																			
CHEM 216 Organic Chemistry II .....	3																																																																																			
CHEM 216L Organic Chemistry Laboratory II.....	2																																																																																			
LFSC 105 Principles of Life Science I.....	3																																																																																			
LFSC 105L Principles of Life Science Laboratory I .....	1																																																																																			
LFSC 106 Principles of Life Science II .....	3																																																																																			
LFSC 106L Principles of Life Science Laboratory II.....	1																																																																																			
MATH 115 Survey of Calculus I .....	3																																																																																			
MATH 116 Survey of Calculus II .....	3																																																																																			
PHYS 105 General Physics I .....	4																																																																																			
PHYS 105L General Physics Laboratory I.....	1																																																																																			
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<b>Basic Skills Core</b>	<b>9</b>																																																																																			
ENGL 101 English Composition I .....	3																																																																																			
MATH 110 Statistics .....	3																																																																																			
SPCH 143 Speech .....	3																																																																																			
<i>The Reading Intensive requirement may be met by LFSC 106.</i>																																																																																				
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<i>The Speaking Intensive requirement may be met by CHEM 215L.</i>																																																																																				
<i>The Mathematics Intensive requirement may be met by MATH 115.</i>																																																																																				
<b>Liberal Education Core</b>	<b>24</b>																																																																																			
CHEM 105 General Chemistry I .....	3																																																																																			
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2																																																																																			
CHEM 106 General Chemistry II.....	3																																																																																			
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2																																																																																			
ECON 202 Macroeconomics -or-																																																																																				
POLS 201 Introduction to Political Science .....	3																																																																																			
ENGL 102 English Composition II .....	3																																																																																			
PFWL 100 Lifetime Fitness/Wellness .....	2																																																																																			
SOCL 151 Principles of Sociology .....	3																																																																																			
Humanities Elective – Common Core List .....	3																																																																																			
<i>Computer Skills are enhanced by CHEM 105L. ____</i>																																																																																				
	<b>75</b>																																																																																			

<sup>1</sup> Biochemistry and microbiology will need to be taken before a student can be considered for admission into the School of Veterinary Medicine. Both courses are available at Vincennes University. (See academic advisor for details.)



**GENERAL SCIENCE – PRE-VETERINARY TECHNOLOGY CONCENTRATION 4891**  
**A One-Year Certificate of Graduation Program**  
(PENDING ICHE APPROVAL)

The Veterinary Technician is a member of the veterinary health care team who has been educated in the care and handling of animals, the basic principles of normal and abnormal life processes, and in routine laboratory and clinical procedures. Veterinary technicians work under the supervision of a licensed veterinarian in private practice, in both human and animal health-related fields, in biomedical research, diagnostic laboratories, zoos and wildlife facilities, food safety inspection, veterinary supply sales, and drug and feed manufacturing. While not a formal part of this program, work experience in a veterinary setting is an essential component of pre-veterinary technology education and is a requirement for application to a Veterinary Technology clinical program.

The Pre-Veterinary Technology certificate provides the first year of basic sciences, mathematics, and communication courses for application to a Veterinary Technology clinical program. However, the application process is competitive. Completion of these prerequisites does not guarantee acceptance by a Veterinary Technology clinical program.

	<b>Credit Hours</b>	
AGRI 100 Agriculture Lectures .....	1	<p align="center"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p align="center"><b>Summer</b></p> <p>ENGL 101 ..... 3  SPCH 143 ..... 3  Total Hours: 6</p> <hr/> <p align="center"><b>Semester I</b></p> <p>AGRI 100 ..... 1  AGRI 106 ..... 3  CHEM 105 ..... 3  CHEM 105L ..... 2  LFSC 105 ..... 3  LFSC 105L ..... 1  MATH 102 ..... 3  Total Hours: 16</p> <hr/> <p align="center"><b>Semester II</b></p> <p>CHEM 106 ..... 3  CHEM 106L ..... 2  ENGL 102 ..... 3  LFSC 106 ..... 3  LFSC 106L ..... 1  MATH 104 ..... 3  PSYC 142 ..... 3  Total Hours: 18</p>
AGRI 106 Animal Agriculture .....	3	
CHEM 105 General Chemistry I .....	3	
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2	
CHEM 106 General Chemistry II.....	3	
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2	
ENGL 101 English Composition I .....	3	
ENGL 102 English Composition II .....	3	
LFSC 105 Principles of Life Science I.....	3	
LFSC 105L Principles of Life Science Laboratory I .....	1	
LFSC 106 Principles of Life Science II .....	3	
LFSC 106L Principles of Life Science Laboratory II .....	1	
MATH 102 College Algebra .....	3	
MATH 104 Trigonometry .....	3	
PSYC 142 General Psychology .....	3	
SPCH 143 Speech .....	3	
	<hr/> <b>40</b>	

**GENERAL SCIENCE – REMOTE SENSING 4880**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum prepares students for transfer to most four-year institutions offering the baccalaureate degree in the areas of Remote Sensing and/or Geographical Information Systems (GIS). Both Remote Sensing and GIS are rapidly becoming integral components of a wide variety of professions, as well as a stand-alone endeavor.

	Credit Hours
<b>Major Program Requirements</b>	<b>37</b>
DRAF 120 Computers for Technology .....	2
DRAF 140 Introduction to CAD .....	3
ERTH 100 Earth Science .....	4
ERTH 111 Introduction to Remote Sensing .....	3
ERTH 112 Geographic Information Systems (GIS) .....	3
ERTH 207 World Geography .....	3
GIST 101 Introduction to GIS/GPS .....	2
GIST 201 GIS Software I.....	3
GIST 202 GIS Software II .....	3
SURV 100 Surveying Fundamentals .....	3
SURV 125 Land Survey Systems .....	3
Computer Programming Elective .....	3
Electives .....	2

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

**Basic Skills Core**

<b>ENGL 101</b> English Composition I .....	<b>3</b>
<b>MATH 102</b> College Algebra.....	<b>3</b>
<b>SPCH 143</b> Speech .....	<b>3</b>

*The Reading Intensive requirement may be met by EARTH 111.  
The Writing Intensive requirement may be met by EARTH 112.  
The Speaking Intensive requirement may be met by EARTH 101.  
The Mathematics Intensive requirement may be met by MATH 102.*

**Liberal Education Core**

<b>ENGL 102</b> English Composition II .....	<b>3</b>
<b>ERTH 101</b> Environmental Science .....	<b>3</b>
<b>ERTH 115</b> Physical Geology .....	<b>3</b>
<b>ERTH 115L</b> Physical Geology Laboratory .....	<b>2</b>
<b>PFWL 100</b> Lifetime Fitness/Wellness .....	<b>2</b>
Humanities Elective – Common Core List .....	<b>3</b>
Social Science Elective – Core List .....	<b>6</b>

*Computer Skills are enhanced by DRAF 120 and the Computer Programming Elective.*

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<i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
DRAF 120 .....	2
ENGL 101 .....	3
ERTH 100 .....	4
GIST 101 .....	2
GIST 201 .....	3
SPCH 143 .....	3
Total Hours:	17
<b>Semester II</b>	
DRAF 140 .....	3
ENGL 102 .....	3
ERTH 112(W) .....	3
GIST 202 .....	3
SURV 100 .....	3
Computer Elective .....	3
Total Hours:	18
<b>Semester III</b>	
ERTH 101(S) .....	3
ERTH 115 .....	3
ERTH 115L .....	2
ERTH 111(R) .....	3
SURV 125 .....	3
Soc Sci Elective .....	3
Total Hours:	17
<b>Semester IV</b>	
ERTH 207 .....	3
MATH 102(M) .....	3
PFWL 100 .....	2
Humanities Elec .....	3
Social Science Elec .....	3
Electives .....	2
Total Hours:	16



**GENERAL STUDIES 2250**  
**A Two-Year General Program Leading to the A.A.S. or A.S. Degree**

General Studies is a program designed for three types of students – students who have not selected a specific major; students who have changed their educational goal but cannot fulfill all graduation requirements for a new major; or students who seek to tailor their program for a particular transfer institution, without meeting program specific requirements at Vincennes University. The hours of freely chosen electives may be any combination of 100 and 200 level courses which best serve students' needs or interests. An additional 15 hours of 200-level elective courses are required for the program. For students enrolled in the Florida Education Program: Licensed by the Commission for Independent Education, Florida Department of Education. Additional information regarding this institution may be obtained by contacting the Commission at 325 W. Gaines Street, Ste. 1414, Tallahassee, FL 32399-0400; toll free # (888) 224-6684.

	Credit Hours - A.A.S.	A.S.
<b>Major Program Requirements</b>	<b>39-40</b>	<b>33 -34</b>
SSKL 103 Study Skills <sup>1</sup> -or- Directed Electives .....	3	3
SSKL 106 Career Planning -or- Directed Electives .....	2-3	2-3
Clustered 200-level Electives .....	15	15
Electives .....	19	13

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>
ENGL 101 English Composition I .....	3	3
MATH 101 Intermediate Algebra (or higher mathematics).....	-	3
100-level or Higher Mathematics Course .....	3	-
SPCH 143 Speech -or- SPCH 148 Interpersonal Communication .....	3	3

*The Reading Intensive requirement may be met by a Social Science elective.*

*The Writing and Speaking Intensive requirements may be met by a Humanities elective.*

*The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

**Liberal Education Core** **14 20-21**

ENGL 102 English Composition II .....	-	3
PFWL 100 Lifetime Fitness/Wellness .....	2	2
Laboratory Science Elective – Common Core List .....	-	3-4
Science Elective – Common Core List.....	3	-
Humanities Elective – Common Core List .....	-	3
Social Science Elective(s) – Core List.....	3	6
One course from two of the following areas: Humanities, Mathematics or Science – Broad Core List -or- Social Science or Writing – Core List .....	6	-
Humanities or Science/Mathematics Elective – Broad Core List.....	-	3

*The Computer Skills requirement is met by Computers Across the Curriculum.*

**62-63 62 -64**

<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>																																								
<p>(This assumes any necessary developmental requirements have been met.)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Semester I</th> </tr> </thead> <tbody> <tr> <td>ENGL 101 .....3</td> </tr> <tr> <td>SSKL 103/Directed Electives.....3</td> </tr> <tr> <td>SPCH143/148.....3</td> </tr> <tr> <td>Hum/Math/Soc Sci/Sci/Writing Elec...3</td> </tr> <tr> <td>Science Elec.....3</td> </tr> <tr> <td style="text-align: right;">Total Hours: 15</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Semester II</th> </tr> </thead> <tbody> <tr> <td>Electives.....7</td> </tr> <tr> <td>SSKL 106/Directed Elective.....2-3</td> </tr> <tr> <td>Soc Sci Elec(R/W/S)3</td> </tr> <tr> <td>Math Elective...3</td> </tr> <tr> <td style="text-align: right;">Total Hours: 15-16</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Semester III &amp; IV</th> </tr> </thead> <tbody> <tr> <td>PFWL 100 .....2</td> </tr> <tr> <td>Electives .....12</td> </tr> <tr> <td>Clustered 200-Level Elec .....15</td> </tr> <tr> <td>Hum/Math/Soc Sci/Sci/Writing Elec...3</td> </tr> <tr> <td style="text-align: right;">Total Hours: 32</td> </tr> </tbody> </table>	Semester I	ENGL 101 .....3	SSKL 103/Directed Electives.....3	SPCH143/148.....3	Hum/Math/Soc Sci/Sci/Writing Elec...3	Science Elec.....3	Total Hours: 15	Semester II	Electives.....7	SSKL 106/Directed Elective.....2-3	Soc Sci Elec(R/W/S)3	Math Elective...3	Total Hours: 15-16	Semester III & IV	PFWL 100 .....2	Electives .....12	Clustered 200-Level Elec .....15	Hum/Math/Soc Sci/Sci/Writing Elec...3	Total Hours: 32	<p>(This assumes any necessary developmental requirements have been met.)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Semester I</th> </tr> </thead> <tbody> <tr> <td>ENGL 101 .....3</td> </tr> <tr> <td>SSKL 103/Directed Electives.....3</td> </tr> <tr> <td>SPCH143/148 .....3</td> </tr> <tr> <td>Hum/Sci/Math Elective.....3</td> </tr> <tr> <td>Elective.....4</td> </tr> <tr> <td style="text-align: right;">Total Hours: 16</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Semester II</th> </tr> </thead> <tbody> <tr> <td>ENGL 102 .....3</td> </tr> <tr> <td>PFWL 100 .....2</td> </tr> <tr> <td>SSKL 106/Elec ....2-3</td> </tr> <tr> <td>Lab Science Elec..3-4</td> </tr> <tr> <td>Soc Sci Elec(R/W/S)....3</td> </tr> <tr> <td style="text-align: right;">Total Hours: 13-15</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Semester III &amp; IV</th> </tr> </thead> <tbody> <tr> <td>MATH 101 .....3</td> </tr> <tr> <td>Hum Elec(R/W/S) ...3</td> </tr> <tr> <td>Soc Sci Elec(R/W/S)3</td> </tr> <tr> <td>Electives .....9</td> </tr> <tr> <td>Clustered 200-Level Elec .....15</td> </tr> <tr> <td style="text-align: right;">Total Hours: 33</td> </tr> </tbody> </table>	Semester I	ENGL 101 .....3	SSKL 103/Directed Electives.....3	SPCH143/148 .....3	Hum/Sci/Math Elective.....3	Elective.....4	Total Hours: 16	Semester II	ENGL 102 .....3	PFWL 100 .....2	SSKL 106/Elec ....2-3	Lab Science Elec..3-4	Soc Sci Elec(R/W/S)....3	Total Hours: 13-15	Semester III & IV	MATH 101 .....3	Hum Elec(R/W/S) ...3	Soc Sci Elec(R/W/S)3	Electives .....9	Clustered 200-Level Elec .....15	Total Hours: 33
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<sup>1</sup> SSKL 103, Study Skills required of all General Studies students taking 2 or more developmental classes, one of which is READ 009 or ENGL 009. Partners for Success is strongly recommended for these students.

**GENERAL STUDIES – BUSINESS STUDIES 5900**  
**A Two-Year Program Leading to the A.A.S. Degree**

This program is available to students who meet the University’s requirements for an associate degree and a Basic Professional Component. This program allows students who may not satisfy the precise requirements in one of the other Business programs to graduate with a designation, which reflects their primary emphasis while at VU. Through the Approved Business Electives, this program allows students to design a program of study to meet special educational or career objectives.

(Note: This program is not available as a “double major” in conjunction with another program, or as a “second degree” once another degree has been earned.)

	<b>Credit Hours</b>
<b>Major Program Requirements</b>	<b>40</b>
Basic Professional Component <sup>1</sup> .....	9
Approved Business Electives <sup>2</sup> .....	21
Electives .....	10

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>8</b>
ENGL 101 English Composition I .....	3
100-level or Higher Mathematics Course .....	3
SPCH 140 Introduction to Speech .....	2

*The Reading Intensive requirement may be met by MGMT 250, MGMT 253 or MGMT 256.*

*The Writing Intensive requirement may be met by MGMT 250, MGMT 253 or OADM 260.*

*The Speaking Intensive requirement may be met by MGMT 253 or OADM 260.*

*The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>	<b>14</b>
PFWL 100 Lifetime Fitness/Wellness .....	2
PSYC 141 Applied Psychology -or-	
PSYC 142 General Psychology .....	3
Science Elective – Common Core List .....	3
One course from two of the following areas: Humanities, Mathematics or Science – Broad Core List -or- Social Science or Writing – Core List .....	6

*The Computer Skills requirement is met by Computers Across the Curriculum.*

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<sup>1</sup> Basic Professional Component (select 3 credit hours from each group):

**Group I**

COMP 107	Web Page Design
COMP 110	Introduction to Computer Concepts
COMP 201	The Computer in Business
CWEB 213	Web-Based Electronic Commerce
OADM 233	Spreadsheets
OADM 234	Databases
OADM 161	Word Processing
OADM 232	Presentation Software
OADM 261	Integrated Business Software

**Group II**

ACCT 100	Basic College Accounting
ACCT 201	Principles of Accounting I
ENTR 230	Small Business Accounting

**Group III**

BLAW 203	Legal Environment of Business
CWEB 211	Project Management
ENTR 121	Creating a Small Business
INTT 111	Introduction to International Business
MGMT 100	Introduction to Business
MGMT 250	Introduction to Management*
MGMT 257	Supervision
MGMT 260	Organizational Leadership
MGMT 270	Leadership and Group Dynamics
MGMT 284	Operations Management
MGMT 290	Applied Management I
OADM 260	Office Management*
PRDM 215	Quality Management

*\*Recommended to satisfy Intensive Reading, Writing or Speaking requirements.*

<sup>2</sup> At least 15 credit hours within this section must be at the 200 level. Certain non-business courses may also be counted within this section.

**GENERAL STUDIES – CUSTOMIZED CERTIFICATE 2255**  
**A Certificate of Program Completion**

This certificate program is offered through Continuing Studies and is designed primarily for non-traditional students who are seeking recognition for obtaining college-level training that does not fulfill specific program requirements in other educational programs. This flexible program allows students to focus upon a variety of specific program courses while meeting general education requirements. It provides for limited educational exploration to encourage an examination of diverse transfer and/or occupational program areas. Students must complete a *minimum* of 26 credit hours to receive this certificate.

	<b>Credit Hours</b>
ENGL 101 English Composition I .....	3
Humanities Elective.....	3
Science or Mathematics Elective .....	3
Social Science Electives .....	6
Electives in Program Area.....	11-14
	<b>26-29</b>

<b>Recommended Sequence of Courses</b>	
(This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
ENGL 101 .....	3
Science/Math Elec .....	3
Social Science Elec.....	3
Elective in Program Area .....	4-5
Total Hours: 13-14	
<b>Semester II</b>	
Humanities Elective ...	3
Social Science Elec.....	3
Electives in Program Area .....	7-9
Total Hours: 13-15	

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011 and MATH 011, MATH 103, 105 or 109.

**GENERAL TECHNOLOGY 8365**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum provides a means for students who are interested in various Technology Division programs and wish to select and develop a personalized curriculum to meet their individual or special technical needs and expectations. This program allows students to select technical courses in more than one technical department or programs and still receive an A.A.S. or A.S. degree in Technology. Graduates will find entry-level employment in the technology fields that relate to the technical programs in which they have placed special emphasis.

Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b> <span style="float: right;"><b>40 40</b></span>			
DRAF 120 Computers for Technology .....	2	2	
Technical Electives, one of which is R/W/S Intensive (15 credit hours = 200-level courses) .....	38	38	
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b> <span style="float: right;"><b>9 9</b></span>		<b>Semester I and II</b>	<b>Semester I and II</b>
ENGL 101 English Composition I .....	3	3	2
MATH 101 Intermediate Algebra.....	-	38	3
100-level or Higher Mathematics course .....	3	-	38
SPCH 143 Speech -or-		Total Hours: 41	Total Hours: 43
SPCH 148 Interpersonal Communication .....	3	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by major courses to be designated by your advisor. The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		<b>Semester III</b>	<b>Semester III</b>
<b>Liberal Education Core</b> <span style="float: right;"><b>14-15 20-21</b></span>		DRAF 120 .....	ENGL 102 .....
ENGL 102 English Composition II .....	-	PFWL 100 or	MATH 101 .....
PFWL 100 Lifetime Fitness/Wellness -or-	3	PFWL 115/	3
PFWL 115 Concepts in Wellness -and -		HLTH 211 .....	PFWL 100 or
HLTH 211 First Aid .....	2-3	2-3	PFWL 115/
Laboratory Science Elective – Common Core List .....	3	3	HLTH 211 .....
Humanities Elective – Common Core List .....	-	3	2-3
Social Science Elective(s) – Core List.....	3	3	3
Humanities, Math or Science Elective – Broad Core List.....	-	3	3
One course from two of the following areas:		3	3
Humanities, Math or Science – Broad Core List -or-		3	3
Social Science or Writing – Core List .....	6	-	3
		Total Hours: 13-14	Total Hours: 14-15
		<b>Semester IV</b>	<b>Semester IV</b>
		Hum/Math/Sci/Soc	Hum/Math/Sci
		Science Elective ....	Elective.....
		3	3
		Lab Science Elec.....	Humanities Elec .....
		3	3
		Soc Sci Elective .....	Soc Sci Elective .....
		3	3
		Total Hours: 9	Lab Science Elec.....
			3
			Total Hours: 12
<i>Computer Skills are enhanced by DRAF 120.</i>	63-64	69	-70

## GRAPHIC DESIGN 2700

### OCCUPATIONAL

#### A Two-Year Program Leading to the A.A.S. or A.S. Degree

This comprehensive occupational curriculum is structured to prepare students to begin a career as a graphic designer. All aspects of this program emphasize developing a strong design sense with imaginative and creative problem solving. Additional emphasis is placed on the skills necessary in preparing artwork for printing such as color separation, page layout, computer imaging and illustration. In addition to being skilled designers and creative artists, students will prepare themselves to meet the needs of employers who are searching for persons with the technical skills to use computer design and production techniques in the advertising and printing industry. Students work with actual clients to experience all stages of the design process from concept to full production proof and client presentation for real-world experience. This program offers a full range of graphic design and production experience which are necessary to build a well rounded, professional portfolio. Vincennes University is an accredited institutional member of the National Association of Schools of Art & Design.

	Credit Hours - A.A.S.	A.S.	
<b>Major Program Requirements</b>	<b>46</b>	<b>46</b>	
CWEB 151 Introduction to Web Graphics and Tools ..	3	3	
DESN 105 Introduction to Illustration .....	3	3	
DESN 110 Visual Design.....	3	3	
DESN 115 Illustration .....	3	3	
DESN 120 Computer Illustration .....	3	3	
DESN 125 Graphic Design I.....	3	3	
DESN 130 Typography .....	3	3	
DESN 200 Computer Imaging .....	3	3	
DESN 210 Graphic Design II.....	3	3	
DESN 220 Advanced Illustration .....	3	3	
DESN 225 Graphic Design III .....	3	3	
DESN 240 Advanced Computer Imaging .....	3	3	
DESN 250 Portfolio Review .....	3	3	
DESN 260 Design and Production Studio.....	3	3	
PRNT 155 Computer Aided Publishing I.....	2	2	
PRNT 155L Computer Aided Publishing Laboratory I.	2	2	
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	3	
MATH 101 Intermediate Algebra (or higher mathematics course).....	-	3	
100-level or Higher Mathematics Course .....	3	-	
SPCH 143 Speech -or-			
SPCH 148 Interpersonal Communications .....	3	3	
<p><i>The Reading Intensive requirement may be met by DESN 250.</i>  <i>The Writing Intensive requirement may be met by DESN 250 or SPCH 148.</i>  <i>The Speaking Intensive requirement may be met by DESN 210 or 260.</i>  <i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i></p>			
			<p><i>Recommended Sequence of Courses for A.A.S.</i>                      (This assumes any necessary developmental requirements have been met.)</p>
			<p><i>Recommended Sequence of Courses for A.S.</i>                      (This assumes any necessary developmental requirements have been met.)</p>
			<p><b>Semester I</b></p>
			<p>DESN 105 .....3                      DESN 110 .....3                      DESN 120 .....3                      ENGL 101 .....3                      PRNT 155 .....2                      PRNT 155L .....2                      Total Hours: 16</p>
			<p><b>Semester I</b></p>
			<p>DESN 105 .....3                      DESN 110 .....3                      DESN 120 .....3                      ENGL 101 .....3                      PRNT 155 .....2                      PRNT 155L .....2                      Soc Sci Elective ....3                      Total Hours: 19</p>
			<p><b>Semester II</b></p>
			<p>DESN 115 .....3                      DESN 125 .....3                      DESN 130 .....3                      DESN 200 .....3                      SPCH 143/148(W) ..3                      Math Elective .....3                      Total Hours: 18</p>
			<p><b>Semester II</b></p>
			<p>DESN 115 .....3                      DESN 125 .....3                      DESN 130 .....3                      DESN 200 .....3                      MATH 101 .....3                      PFWL 100 .....2                      SPCH 143/148(W) ..3                      Total Hours: 20</p>
			<p><b>Semester III</b></p>
			<p>CWEB 151 .....3                      DESN 210(S) .....3                      DESN 220 .....3                      DESN 240 .....3                      PFWL 100 .....2                      Hum/Math/Soc                      Sci/Science Elec...3                      Total Hours: 17</p>
			<p><b>Semester III</b></p>
			<p>CWEB 151 .....3                      DESN 210(S) .....3                      DESN 220 .....3                      DESN 240 .....3                      Art History Elec ....3                      Writing Elective ....3                      Total Hours: 18</p>

(Continued on the following page)



<b>Liberal Education Core</b>	<b>14</b>
Writing Skills Course <sup>1</sup> .....	-
PFWL 100 Lifetime Fitness/Wellness .....	2
PSYC 142 General Psychology .....	3
Laboratory Science Elective – Common Core List .....	-
Science Elective – Common Core List .....	3
Art History Elective – Common Core List .....	-
Humanities, Mathematics or Science – Broad Core List .....	- 3
Social Science Elective – Core List .....	- 3
One course from two of the following Areas: Humanities, Mathematics, or Science – Broad Core List -or- Social Science – Core List .....	- 6

Computer Skills are enhanced by DESN 120. \_\_\_\_

**69 75**

Semester IV	Semester IV
DESN 225 .....3	DESN 225.....3
DESN 250(R/W) .....3	DESN 250(R/W) .....3
DESN 260(S) .....3	DESN 260(S) .....3
PSYC 142 .....3	PSYC 142 .....3
Hum/Math/Soc	Humanities/Math/
Sci/Science Elec ....3	Science Elec.....3
Science Elective .....3	Lab Science Elec ..._3
Total Hours: 18	Total Hours: 18

**NOTE:** A grade of C or better must be maintained in all Major Program Requirements or the course(s) must be repeated.

<sup>1</sup> Select one of the following: ENGL 102 English Composition II, ENGL 107 Business English, ENGL 108 Technical Writing or ENGL 109 Broadcast Writing.

**GRAPHIC DESIGN  
MULTIMEDIA AND WEB GRAPHICS CONCENTRATION 2701  
OCCUPATIONAL**

**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

Multimedia and Web Design are the creative union of graphics, animation, audio, video and text to produce an informative, eye-catching, visual multimedia or web presentation. This program will offer a select group of motivated and skilled students the opportunity to prepare themselves to enter a growing market of production houses and business groups to produce original marketing, training and business multimedia presentations and media rich web graphics. Students will be prepared to enter this challenging field with a solid background using state-of-the-art equipment and industry standard production software. This program will nurture students' individual development of originality and technical skills and stress the strong design elements which today's market demands. By including courses from both the Graphic Design Department and the Broadcasting Department or the Computer Programming Department, students will gain an invaluable blend of design and production skills from both fields. Vincennes University is an accredited institutional member of the National Association of Schools of Art & Design.

<b>Major Program Requirements</b>	<b>Credit Hours - A.A.S.</b>	<b>A.S.</b>	<b>Recommended Sequence of Courses for A.A.S.</b>	<b>Recommended Sequence of Courses for A.S.</b>
CWEB 151 Introduction to Web Graphics and Tools ..	3	3	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
DESN 105 Introduction to Illustration .....	3	3		
DESN 110 Visual Design.....	3	3		
DESN 120 Computer Illustration .....	3	3		
DESN 125 Graphic Design I.....	3	3		
DESN 130 Typography .....	3	3		
DESN 200 Computer Imaging .....	3	3		
DESN 210 Graphic Design II.....	3	3		
DESN 215 Multimedia I.....	3	3		
DESN 230 Multimedia II .....	3	3		
DESN 240 Advanced Computer Imaging .....	3	3	<b>Semester I</b>	<b>Semester I</b>
DESN 250 Portfolio Review .....	3	3	DESN 105.....3	DESN 105 .....3
DESN 260 Design and Production Studio.....	3	3	DESN 110.....3	DESN 110 .....3
MCOM 102 Introduction to Audio-Video Production -or-			DESN 120.....3	DESN 120 .....3
COMP 107 Web Page Design.....	3	3	ENGL 101.....3	ENGL 101 .....3
PRNT 155 Computer Aided Publishing I.....	2	2	PRNT 155.....2	PRNT 155 .....2
PRNT 155L Computer Aided Publishing Laboratory I.	2	2	PRNT 155L.....2	PRNT 155L.....2
			Total Hours: 16	Soc Sci Elective .....3 Total Hours: 19
			<b>Semester II</b>	<b>Semester II</b>
<b>General Education Requirements</b>			DESN 125.....3	DESN 125 .....3
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			DESN 130.....3	DESN 130 .....3
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>	DESN 200.....3	DESN 200 .....3
ENGL 101 English Composition I .....	3	3	MCOM 102/COMP 107.....3	MCOM 102/COMP 107 .....3
MATH 101 Intermediate Algebra (or higher mathematics course) .....	-	3	SPCH 143/148(W) ..3	MATH 101 .....3
100-level or Higher Mathematics Course .....	3	-	Math Elective .....3	PFWL 100 .....2
SPCH 143 Speech -or-			Total Hours: 18	SPCH 143/148(W) ..3 Total Hours: 20
SPCH 148 Interpersonal Communications .....	3	3	<b>Semester III</b>	<b>Semester III</b>
			CWEB 151 .....3	CWEB 151 .....3
			DESN 210(S) .....3	DESN 210(S) .....3
			DESN 215.....3	DESN 215 .....3
			DESN 240.....3	DESN 240 .....3
			PFWL 100 .....2	Art History Elec.....3
			Hum/Math/Soc Sci/Science Elec.. 3	Writing Elective.....3
			Total Hours: 17	Total Hours: 18

*The Reading Intensive requirement may be met by DESN 250.  
The Writing Intensive requirement may be met by DESN 250 or SPCH 148.  
The Speaking Intensive requirement may be met by DESN 210 or 260.  
The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

*(Continued on the following page)*

<b>Liberal Education Core</b>	<b>14</b>	<b>20</b>
Writing Skills Course <sup>1</sup> .....	-	3
PFWL 100 Lifetime Fitness/Wellness .....	2	2
PSYC 142 General Psychology .....	3	3
Laboratory Science Elective--Common Core List.....	-	3
Science Elective – Common Core List.....	3	-
Art History Elective – Common Core List.....	-	3
Humanities, Mathematics or Science –		
Broad Core List .....	-	3
Social Science Elective – Core List .....	-	3
One course from two of the following areas:		
Humanities, Mathematics or Science – Broad Core		
List -or-		
Social Science – Core List .....	6	-
 <i>Computer Skills are enhanced by DESN 200.</i>	 ___	 ___
<b>69</b>		<b>75</b>

Semester IV	Semester IV
DESN 230 .....3	DESN 230.....3
DESN 250(R/W) ....3	DESN 250(R/W) ....3
DESN 260(S) .....3	DESN 260(S) .....3
PSYC 142 .....3	PSYC 142 .....3
Hum/Math/Soc	Sci/Math/
Sci/Science Elec ...3	Humanities Elec ...3
Science Elective ...3	Lab Science Elec ...3
Total Hours: 18	Total Hours: 18

**NOTE:** A grade of *C* or better must be maintained in all Major Program Requirements or the course(s) must be repeated.

### HAZARDOUS MATERIALS TECHNOLOGY 4491 A Certificate of Program Completion

This certificate program is designed to provide the basic skills and knowledge to be employed in the field of hazardous materials management. The primary focus will be on characteristics, regulations and planning for managing hazardous materials. This program is flexible and designed to meet the needs of a variety of student populations, on- and off-campus. (Students entering this program are required to complete the following high school prerequisites: one year of high school chemistry and one year of algebra.)

	Credit Hours
CHEM 101 Elementary Organic Chemistry and Biochemistry <sup>2</sup> .....	3
CHEM 101L Elementary Organic Chemistry and Biochemistry Laboratory .....	1
ENGL 101 English Composition I .....	3
HAZA 100 Occupational Safety and Health Administration (OSHA) Regulations .....	3
HAZA 110 Introduction to Hazardous Materials Management .....	3
HAZA 200 Environmental Protection Agency (EPA) Regulations.....	3
HAZA 210 Department of Transportation (DOT) Regulations .....	3
HAZA 220 Emergency Response Planning .....	3
HAZA 230 Hazardous Materials Incident Management .....	3
SPCH 148 Interpersonal Communication .....	3
—	<b>28</b>

<i>Recommended Sequence of Courses</i>
(This sequence assumes any necessary developmental requirements have been met.)
Semester I
ENGL 101 .....3
HAZA 100 .....3
HAZA 110 .....3
SPCH 148 .....3
Total Hours: 12
Semester II
CHEM 101 .....3
CHEM 101L..... 1
HAZA 200 .....3
HAZA 210 .....3
HAZA 220 .....3
HAZA 230..... 3
Total Hours: 16

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011 and MATH 011, MATT 103, 105 or 109.

<sup>1</sup> Select one of the following: ENGL 102 English Composition II, ENGL 107 Business English, ENGL 108 Technical Writing or ENGL 109 Broadcast Writing.

<sup>2</sup> High school chemistry or satisfactory completion of CHEM 100 and CHEM 100L or CHEM 103 and CHEM 103L is a prerequisite of CHEM 101.

**HEALTH CARE MANAGEMENT 6000**  
**A Bachelor of Science in Health Care Management**

This program is designed for anyone interested in health care management, but especially students who have previous academic work in or who have completed a two year program in a health, health care, business or related field and who are seeking a BS degree with a health care management focus. The goal of the program is to provide and maintain educational excellence and an innovative curriculum for our students.

**Pre-Admission Requirements**

Unless otherwise approved by the department, all applicants should be within six credit hours of being classified as Junior status, have completed all general education requirements for an A.S. degree from an approved accredited academic institution, and have passed each required course with a C or better.

**Admission Requirements**

1. Meet admission requirements of the University.
2. Possess acceptable (to the internship sites and the University) health status.
3. Have a cumulative 2.0 GPA. (Students may enter the program with below acceptable GPA, but must maintain a semester-by-semester GPA of 2.0 until a 2.0 cumulative GPA is reached.)

**Requirements for Health Care Management**

1. Students must provide verification of Hepatitis B inoculation or refusal thereof.
2. Students must supply own transportation to the school and internship sites.

**Standards for Progression and Graduation**

The Capstone Experience/Internship is evaluated by the faculty supervisor as “satisfactory” or “unsatisfactory” based upon criteria established by the program. If an unsatisfactory is received, the student has one more opportunity to repeat the experience with an other supervisor. If a second unsatisfactory is received, a failing grade is given for that course.

<b>Major Program Requirements</b>	<b>Credit Hours</b>		
	<b>45</b>		
ACCT 201 Principles of Accounting I .....	3	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>ENGL 101/112 .....3            PFWL 100 .....2            Concentration ..... 7-13            Biological Sci Elec... 3-4            Total Hours: 15-22</p> <hr/> <p><b>Semester II</b></p> <p>ENGL 102/205 .....3            MATH 102 (or higher)...3            SPCH 143/148..... 3            Concentration ..... 3-9            Physical Sci Elec.... 3-4            Total Hours: 15-22</p> <hr/> <p><b>Summer</b></p> <p>Concentration ..... 6-10            Total Hours: 6-10</p>	
BPSD 423 Medical Law .....	3		
HCMG 301 Seminar in Health Care Services .....	3		
HCMG 311 Biomedical and Managerial Statistics .....	3		
HCMG 322 Health Care Information Management.....	3		
HCMG 341 Managerial Epidemiology .....	3		
HCMG 351 Medical Practice Management.....	3		
HCMG 401 Finance in Health Care Organizations II.....	3		
HCMG 411 Human Resources Management in Health Care Organizations.....	3		
HCMG 421 Health Care Policy .....	3		
HCMG 436 Health Care Economics.....	3		
HCMG 451 Strategic Management in Health Care Organizations .....	3		
HCMG 490 Capstone Experience/Internship, Health Care Management.....	3		
MGMT 305 Principles of Management.....	3		
MKTG 305 Principles of Marketing.....	3		
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b>	<b>9</b>		
ENGL 101 English Composition I -or-			
ENGL 112 Rhetoric and Research .....	3		
MATH 102 College Algebra (or higher) .....	3		
SPCH 143 Speech -or-			
SPCH 148 Interpersonal Communication .....	3		

(Continued on the following page)

The Reading, Writing and Speaking Intensive requirements may be met by designated courses in areas of concentration.

The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.

<b>Liberal Education Core<sup>1</sup></b>	<b>33</b>
ENGL 102 English Composition II -or-	
ENGL 205 Business Communications .....	3
PFWL 100 Lifetime Fitness/Wellness .....	2
PHIL 313 Contemporary Ethical Issues .....	3
Diverse Cultures & Global Perspectives Core .....	3
Social Science Elective – Core List .....	6
History Elective (Social Science Core) .....	3
Humanities Elective (3 hrs - Common Core; 3 hrs - Broad Core) .....	6
Biological and Physical Sciences Elective <sup>2</sup> .....	7

**Note:** Modules are offered on a rotational basis and may not be offered during the same semester each year. Students should contact the Health Care Management Department Chair for a schedule of current module offerings.

<b>Module 1</b>	
HCMG 411 .....	3
HCMG 421 .....	3
HCMG 451 .....	3
Diverse Cultures Elec. .....	3
Total Hours:	12

<b>Module 2</b>	
HCMG 301 .....	3
HCMG 311 .....	3
HCMG 322 .....	3
HCMG 341 .....	3
Total Hours:	12

<b>Module 3</b>	
HCMG 351 .....	3
HCMG 401 .....	3
HCMG 436 .....	3
HCMG 490 .....	3
Total Hours:	12

<b>Module 4</b>	
ACCT 201 .....	3
BPSD 423 -or-	
HCMG 490 .....	3
MGMT 305 .....	3
MKTG 305 .....	3
Total Hours:	12

<b>Semester III</b>	
Concentration .....	15-22
Total Hours:	15-22
<b>Semester IV</b>	
Humanities Elec .....	3
Soc Sci Elec .....	6
Concentration .....	6-13
Total Hours:	15-22
<b>Summer</b>	
Humanities Elec .....	3
History Elec .....	3
Total Hours:	6
<b>Semester V</b>	
HCMG Module .....	12
Total Hours:	12
<b>Semester VI</b>	
HCMG Module .....	12
Total Hours:	12
<b>Summer</b>	
PHIL 313 .....	3
Total Hours:	3
<b>Semester VII</b>	
HCMG Module .....	12
Total Hours:	12
<b>Semester VIII</b>	
HCMG Module .....	12
Total Hours:	12

<sup>1</sup> The Liberal Education Core in some Concentrations may include additional hours.

<sup>2</sup> One course must be a physical science course and one a biological science course. One of these two courses must be a laboratory science selected from the AA/AS Science and Mathematics Common Core.

<b>Funeral Service Education</b>	<b>45</b>
ACCT 201 Principles of Accounting I.....	3
CHEM 101 Elementary Organic Chemistry and Biochemistry .....	3*
CHEM 101L Elementary Organic Chemistry and Biochemistry Laboratory .....	1*
FNRL 100 Funeral History.....	2
FNRL 120 Restorative Art .....	3
FNRL 120L Restorative Art Lab .....	1
FNRL 125 Embalming Orientation .....	2
FNRL 130 Funeral Service Merchandising .....	2
FNRL 140 Funeral Home Operations.....	2
FNRL 200 Funeral Service Law.....	3
FNRL 220 Embalming Principles .....	3
FNRL 220L Embalming Principles Laboratory.....	1
FNRL 230 Psychological Aspects of Grief and Death .....	3
FNRL 240 Funeral Directing Concepts .....	3
FNRL 250 Embalming Theory and Practice .....	3
FNRL 250L Embalming Theory and Practice Laboratory .....	1
FNRL 260 Funeral Management .....	3
FNRL 260L Funeral Management Laboratory .....	1
FNRL 285 Pathology .....	3
FNRL 290 Seminar in Funeral Service Education .....	2
LFSC 107 Essentials of Human Anatomy and Physiology I .....	3*
LFSC 107L Essentials of Human Anatomy and Physiology I Lab .....	1*
LFSC 210 Microbiology .....	2
LFSC 210L Microbiology Laboratory .....	2
PSYC 142 General Psychology .....	3*
SOCL 151 Principles of Sociology .....	3*
<b>Health Information Management</b>	<b>46</b>
COMP 110 Intro to Computer Concepts .....	3
FNRL 285 Pathology .....	3
HIMT 100 Introduction to Health Information Management .....	3
HIMT 110 Medical Terminology for Allied Health .....	3
HIMT 121 Health Care Statistics .....	2
HIMT 130 Medicolegal Aspects of Health Records .....	2
HIMT 190 Professional Practice I.....	3
HIMT 200 Health Care Coding I.....	4
HIMT 204 Health Care Coding II .....	4
HIMT 211 Clinical Quality Management .....	3
HIMT 212 Pharmacology for Allied Health .....	2
HIMT 220 Reimbursement and Management Processes(R/S) .....	4
HIMT 240 Professional Practice II(W) .....	7
LFSC 111 Anatomy and Physiology I.....	2*
LFSC 111L Anatomy and Physiology Laboratory I.....	1*
LFSC 112 Anatomy and Physiology II.....	2
LFSC 112L Anatomy and Physiology Lab II.....	1
PSYC 142 General Psychology .....	3*
SOCL 151 Principles of Sociology .....	3*
<b>Massage Therapy</b>	<b>47</b>
ENTR 280 Small Business Problems and Concerns .....	3
ENTR 292 Business Plan Development .....	2
FNRL 285 Clinical Pathology .....	3
HIMT 110 Medical Terminology .....	3

\*Required credits for Physical Science, Biological Science and Social Science are counted in the Liberal Education Core area.

**Massage Therapy Cont'd**

LFSC 111	Anatomy and Physiology I.....	2*
LFSC 111L	Anatomy and Physiology Laboratory I.....	1*
LFSC 112	Anatomy and Physiology II.....	2
LFSC 112L	Anatomy and Physiology Laboratory II.....	1
MASG 100	Massage Fundamentals.....	5
MASG 110	Foundations of Professional Massage.....	2
MASG 140	Clinical Education I.....	1
MASG 210	Structure, Function, Movement and Assessment.....	5
MASG 230	Asian Bodywork.....	3
MASG 232	Clinical Education II.....	1
MASG 240	Clinical Education III.....	1
MASG 250	Career in Massage Therapy.....	2
MASG 260	Clinical Education IV.....	1
MASG 262	Advanced Massage Techniques.....	3
MASG 264	Clinical Massage.....	3
MASG 272	Spa Management and Massage Modalities.....	3
PHED 294	Kinesiology.....	3

**Physical Therapist Assistant 46**

HIMT 110	Medical Terminology for Allied Health.....	3
LFSC 111	Anatomy and Physiology I.....	2*
LFSC 111L	Anatomy and Physiology Laboratory I.....	1*
LFSC 112	Anatomy and Physiology II.....	2
LFSC 112L	Anatomy and Physiology Laboratory II.....	1
PHYS 100	Physics for Health-related Professions.....	3*
PSYC 142	General Psychology.....	3*
PSYC 201	Developmental Psychology -or-	
SOCL 151	Principles of Psychology.....	3
PTAS 110	Physical Therapist Assisting I.....	5
PTAS 120	Physical Therapist Assisting II.....	6
PTAS 130	Clinical Education I.....	5
PTAS 210	Physical Therapist Assisting III.....	8
PTAS 224	Clinical Education II.....	5
PTAS 225	Clinical Education III.....	5
PTAS 230	Seminar in Physical Therapist Assisting.....	3

**Radiography 67**

HIMT 110	Medical Terminology for Allied Health.....	3
LFSC 111	Anatomy and Physiology I.....	2*
LFSC 111L	Anatomy and Physiology Laboratory I.....	1*
LFSC 112	Anatomy and Physiology II.....	2
LFSC 112L	Anatomy and Physiology Laboratory II.....	1
RADG 100	Fundamentals of Radiologic Science and Health Care.....	3
RADG 101	Clinical Practice I.....	3
RADG 103	Patient Care in Radiologic Sciences I.....	2
RADG 104	Radiographic Procedures I.....	4
RADG 106	Positioning Lab I.....	3
RADG 109	Clinical Practice II.....	3
RADG 110	Patient Care in Radiologic Sciences II.....	2
RADG 111	Radiographic Procedures II.....	4
RADG 113	Positioning Laboratory II.....	3
RADG 114	Radiation Production and Characteristics I.....	3
RADG 115	Clinical Practice III.....	3
RADG 116	Clinical Practice IV.....	3
RADG 201	Radiation Production and Characteristics II.....	3
RADG 202	Imaging and Processing.....	2

\*Required credits for Physical Science, Biological Science and Social Science are counted in the Liberal Education Core area.

**Radiography Cont'd**

RADG 203	Radiographic Quality and Exposure .....	2
RADG 204	Pharmacology and Drug Administration .....	2
RADG 205	Clinical Practice V .....	3
RADG 207	Radiation Biology .....	4
RADG 208	Radiographic Pathology .....	2
RADG 209	Imaging Equipment .....	1
RADG 210	Clinical Practice VI .....	3
RADG 211	Seminar in Radiography .....	3
Social Science Electives .....		6*
Humanities Elective .....		3*

**Surgical Technology****37**

HIMT 110	Medical Terminology for Allied Health .....	3
LFSC 111	Anatomy and Physiology I .....	2*
LFSC 111L	Anatomy and Physiology Laboratory I .....	1*
LFSC 112	Anatomy and Physiology II .....	2
LFSC 112L	Anatomy and Physiology Laboratory II .....	1
SURG 100	Surgical Technology I .....	5
SURG 105	Surgical Technology Application .....	4
SURG 110	Pharmacology for Surgical Technologists .....	2
SURG 120	Surgical Technology II .....	11
SURG 200	Surgical Technology III .....	2
SURG 225	Professional Practice .....	4
Social Science Elective .....		3
Elective <sup>1</sup> .....		2*

**Business Administration****37**

ACCT 201	Principles of Accounting I .....	3
ACCT 202	Principles of Accounting II .....	3
BLAW 203	Legal Environment of Business .....	3
COMP 201	The Computer in Business .....	3
ECON 201	Microeconomics .....	3
ECON 202	Macroeconomics .....	3
MGMT 100	Introduction to Business .....	3
MGMT 265	Business Statistics .....	3
PSYC 142	General Psychology .....	3*
Social Science Elective <sup>2</sup> .....		3
Directed Elective .....		3
Electives <sup>3</sup> .....		7

\*Required credits for Physical Science, Biological Science and Social Science are counted in the Liberal Education Core area.

Computer Skills are enhanced by MGMT 250.

124-154<sup>4</sup>

<sup>1</sup> Students must complete a *minimum* of 62 credit hours required for an associate degree. At least 15 hours must be 200-level courses.

<sup>2</sup> Suggested social science electives include HIST 139 American History I, HIST 140 American History II, POLS 111 American National Government, and POLS 201 Introduction to Political Science. Students planning to transfer to Indiana University should enroll in either HIST 139 or HIST 140.

<sup>3</sup> Students may wish to use this elective to satisfy algebra prerequisite for MATH 111. See course descriptions for MATH 101 and MATH 102.

<sup>4</sup> The minimum number of hours required for a baccalaureate degree is 124.



**HEALTH INFORMATION MANAGEMENT 6150**  
**A Two-Year Program Leading to the A.S. Degree**

Health Information Management professionals play a critical role in maintaining, collecting and analyzing the data that doctors, nurses and other healthcare providers rely on to deliver quality healthcare. They are experts in managing patient health information and medical records, administering computer information systems and coding the diagnosis and procedures for healthcare services provided to patients. HIM professionals work in a multitude of settings throughout the healthcare industry including hospitals, physician offices and clinics, long-term facilities, insurance companies, government agencies and home care providers.

Vincennes University's Health Information Management program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education c/o American Health Information Management Association, 233 N. Michigan Avenue, Suite 2150, Chicago, IL 60601-5800, (312) 233-1100. Graduates are eligible to write the National Exam to earn certification as Registered Health Information Technicians (RHIT). Arrangements will be made for students to take the National examination. A fee will be assessed to students to cover the cost of the exam. Criminal background checks are required, with the fee paid by the student.

**Admission Requirements**

1. Meet admission requirements of the University.
2. Complete READ 011 with a grade of “C” or higher or qualify for exemption from READ 011 as determined by placement test scores (e.g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University).
3. Complete ENGL 011 with a grade of “C” or higher or qualify for placement into ENGL 101 as determined by placement test scores (e.g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University).
4. Qualify for placement into MATH 101 as determined by the Vincennes University Accuplacer test.

**Standards for Progression and Graduation**

Satisfactory completion of all courses with a grade of C or above. Failure to meet this requirement for the (HIMT) courses will result in a withdrawal of the student from the Health Information Management program.

	Credit Hours	
<b>Major Program Requirements</b>	<b>43</b>	<p style="text-align: center;"><i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p style="text-align: center;"><b>Semester I</b></p> <hr/> <p>COMP 110 ..... 3            ENGL 101 ..... 3            HIMT 100 ..... 3            HIMT 110 ..... 3            LFSC 111 ..... 2            LFSC 111L ..... 1            PFWL 100 or            PFWL 115/            HLTH 211 ..... 2-3            Total Hours: 17-18</p> <hr/> <p style="text-align: center;"><b>Semester II</b></p> <hr/> <p>ENGL 102 ..... 3            HIMT 121 ..... 2            HIMT 130 ..... 2            LFSC 112 ..... 2            LFSC 112L ..... 1            MATH 101 ..... 3            SPCH 143/148 ..... 3            Total Hours: 16</p> <hr/> <p style="text-align: center;"><b>Summer</b></p> <hr/> <p>HIMT 190 ..... 3</p>
COMP 110 Introduction to Computers Concepts.....	3	
FNRL 285 Pathology .....	3	
HIMT 100 Introduction to Health Information Management .....	3	
HIMT 110 Medical Terminology for Allied Health.....	3	
HIMT 121 Health Care Statistics .....	2	
HIMT 130 Medicolegal Aspects of Health Records .....	2	
HIMT 190 Professional Practice I .....	3	
HIMT 200 Health Care Coding I .....	4	
HIMT 204 Health Care Coding II.....	4	
HIMT 211 Clinical Quality Management .....	3	
HIMT 212 Pharmacology for Allied Health .....	2	
HIMT 220 Reimbursement and Management Processes .....	4	
HIMT 240 Professional Practice II .....	7	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra .....	3	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	

*The Reading and Speaking Intensive requirements may be met by HIMT 220.  
 The Writing Intensive requirement may be met by HIMT 240.  
 The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

(Continued on the following page)

**Liberal Education Core**

**20-21**

ENGL 102	English Composition II .....	3
LFSC 111	Anatomy and Physiology I <sup>1</sup> .....	2
LFSC 111L	Anatomy and Physiology Laboratory I <sup>2</sup> .....	1
LFSC 112	Anatomy and Physiology II <sup>3</sup> .....	2
LFSC 112L	Anatomy and Physiology Laboratory II <sup>2</sup> .....	1
PFWL 100	Lifetime Fitness/Wellness -or-	
PFWL 115	Concepts in Wellness -and-	
HLTH 211	First Aid .....	2-3
PSYC 142	General Psychology .....	3
SOCL 151	Principles of Sociology .....	3
Humanities Elective – Common Core List	.....	3

Computer Skills are enhanced by COMP 110.

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-73

Semester III	
FNRL 285 .....	3
HIMT 200 .....	4
HIMT 211 .....	3
HIMT 212 .....	2
SOCL 151 .....	3
Total Hours: 15	
Semester IV	
HIMT 204 .....	4
HIMT 220(R/S) .....	4
HIMT 240(W) .....	7
Total Hours: 15	
Summer	
PSYC 142 .....	3
Humanities Elec .....	3
Total Hours: 6	

<sup>1</sup> Distance Education students may substitute LFSC 108 Principles of Human Anatomy and Physiology I for LFSC 111.

<sup>2</sup> Distance Education students may substitute CHEM 107 World of Chemistry for LFSC 111L and LFSC 112L.

<sup>3</sup> Distance Education students may substitute LFSC 109 Principles of Human Anatomy and Physiology II for LFSC 112.

**HOMELAND SECURITY AND PUBLIC SAFETY 7000**  
**Bachelor of Science Degree**

The Bachelor of Science in Homeland Security and Public Safety is designed to provide students who have completed an Associate degree in Conservation Law Enforcement, Emergency Medical Services, Fire Science and Safety Technology, Law Enforcement, Loss Prevention, Paralegal, Emergency Management and Planning, or a related Associate degree the opportunity to complete an advanced interdisciplinary Baccalaureate degree. Graduates will have extensive knowledge in two or more career fields, improving their employability by meeting entry-level requirements in those career professions. The curriculum is designed to prepare students for careers in an ever-changing society that demands and requires public safety accountability.

	<b>Credit Hours</b>		
<b>Major Program Requirements</b>	<b>48</b>		
EMAP 250 Continuity of Operations .....	3	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>ENGL 101 .....3            Concentration .....8            MATH 102 .....3            Social Sci .....3            Total Hours: 17</p> <hr/> <p><b>Semester II</b></p> <p>ENGL 102/108 .....3            Concentration ..... 11-12            SPCH 143/148.....3            Total Hours: 17-18</p> <hr/> <p><b>Semester III</b></p> <p>Concentration ..... 12-15            PFWL 100 .....2            Total Hours: 14-17</p> <hr/> <p><b>Semester IV</b></p> <p>Concentration ..... 9-12            Humanities Elective.....3            Social Sci.....3            Total Hours: 15-18</p> <hr/> <p><b>Summer</b></p> <p>Concentration ..... 0-4            Total Hours: 0-4</p> <hr/> <p><b>Semester V</b></p> <p>EMAP 250(R/W/S) .....3            HSPS 305 .....3            HSPS 310 .....3            SPAN 101 .....4            Computer Elec.....3            Total Hours: 16</p> <hr/> <p><b>Semester VI</b></p> <p>HSPS 321 .....3            HSPS 415 .....3            Div Cultures/GP Elec.....3            MATH 110/MGMT            265 .....3            SPAN 118 .....3            Total Hours: 15</p>	
HSPS 305 Public Policy for Homeland Security and Public Safety.....	3		
HSPS 310 Homeland Security.....	3		
HSPS 321 National Security Law .....	3		
HSPS 340 Homeland Security and Public Safety Seminar .....	3		
HSPS 360 Weapons of Mass Destruction .....	3		
HSPS 410 Research Methods .....	3		
HSPS 415 Introduction to Terrorism.....	3		
HSPS 420 Crisis and Disaster Issues in Homeland Security and Public Safety .....	3		
HSPS 425 Supervision/Management .....	3		
HSPS 430 Social Deviance .....	3		
HSPS 470 Internship in Public Safety .....	3		
HSPS 490 Capstone Experience, Homeland Security and Public Safety .....	3		
MATH 110 Statistics -or-			
MGMT 265 Business Statistics .....	3		
SPAN 118 Conversational Spanish for Public Safety .....	3		
Computer Elective (Security or Applications to Homeland Security and Public Safety) .....	3		
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b>	<b>9</b>		
ENGL 101 English Composition I .....	3		
MATH 102 College Algebra .....	3		
SPCH 143 Speech -or-			
SPCH 148 Interpersonal Communications .....	3		
<p><i>The Reading, Writing and Speaking Intensive requirements may be met by EMAP 250 or designated courses in areas of concentration.</i></p> <p><i>The Mathematics Intensive requirement may be met by MATH 102 or higher.</i></p>			

(Continued on the following page)



**Emergency Management and Planning Cont'd:**

EMTF 120	Medical First Responder -or-	
EMTB 212	Emergency Medical Technician-Basic .....	3-6
FIRE 204	Hazardous Materials I .....	2
FIRE 204L	Hazardous Materials Laboratory I.....	1
MGMT 260	Organizational Leadership .....	3
	Biological Lab Science Elective .....	3-4*

**Emergency Medical Services: 40-42**

EMTB 212	Emergency Medical Technician-Basic .....	6
EMTB 250	EMS Experience .....	0-2
EMTP 160	Paramedic Prehospital Care I.....	7
EMTP 165	Paramedic Clinical Education I .....	5
EMTP 260	Paramedic Prehospital Care II .....	6
EMTP 265	Paramedic Clinical Education II.....	6
EMTP 290	Paramedic Prehospital Care III.....	3
EMTP 291	Paramedic Clinical Education III.....	4
HIMT 110	Medical Terminology for Allied Health .....	3
	Physical Lab Science Elective .....	3-4*

**Fire Science and Safety Technology: 36-39**

CHEM 120	Chemistry of Hazardous Materials .....	3*
EMTB 212	Emergency Medical Technician-Basic .....	6
FIRE 100	Introduction to the Fire Service.....	6
FIRE 101	Fire Protection Systems, Prevention and Education .....	3
FIRE 102	Building Plans, Fire Codes and Construction .....	3
FIRE 103	Fire Equipment and Hydraulics(R) .....	3
FIRE 203	Fire Cause and Determination .....	3
FIRE 204	Hazardous Materials I .....	2
FIRE 204L	Hazardous Materials Laboratory I.....	1
FIRE 205	Hazardous Materials II .....	2
FIRE 205L	Hazardous Materials Laboratory II(S) .....	1
FIRE 206	Firefighting Strategy and Tactics I(W) .....	3
FIRE 207	Firefighting Strategy and Tactics II.....	3
FIRE 270	Internship in Fire Science.....	0-3
	Biological Lab Science Elective .....	3-4*

**Law Enforcement: 33**

LAW 100	Survey of Criminal Justice .....	3
LAW 106	Introduction to Traffic Control.....	3
LAW 150	Introduction to Criminology.....	3
LAW 155	Substantive Criminal Law .....	3
LAW 160	Criminal Investigation .....	3
LAW 200	Criminalistics I .....	3
LAW 205	Procedural Criminal Law(S) .....	3
LAW 210	Police Operations and Community Relations(R) .....	3
LAW 250	Juvenile Delinquency .....	3
LAW 260	Criminalistics II(W) .....	3
	Electives <sup>1</sup> .....	3
	One Biological and One Physical Lab Science Elective .....	7-8*

\* Required credits for Physical and Biological Science Laboratories are counted in the Liberal Education Core area.

(Continued on the following page)

<sup>1</sup> Elective courses may include LAW 215 Police Administration and Organization, LAW 270 Internship in Law Enforcement, or LAW 280 Honors Seminar in Criminal Justice.

<b>Loss Prevention:</b>	<b>39-43</b>
COMP 110 Introduction to Computer Concepts .....	3
CNET 155 Computer Forensics: Cyber Investigations .....	3
LAW 150 Introduction to Criminology .....	3
LAW 160 Criminal Investigation .....	3
LOSS 115 Principles of Loss Prevention.....	3
LOSS 155 Private Security Law .....	3
LOSS 170 Security I.....	3
LOSS 205 Safety Issues in Loss Prevention .....	3
LOSS 220 Risk Management.....	3
LOSS 225 Security Management(R/W) .....	3
LOSS 240 Security II .....	3
LOSS 270 Internship in Security .....	0-4
Business Elective .....	3
Accounting Elective .....	3
One Biological and One Physical Lab Science Elective .....	7-8*

<b>Paralegal:</b>	<b>36-38</b>
PARA 100 Paralegal Profession and Ethics .....	3
PARA 130 Land Transactions .....	3
PARA 140 Criminal Law and Procedure.....	3
PARA 150 Investigation and Tort Law .....	3
PARA 160 Civil Procedures.....	3
PARA 170 The Paralegal in the Business World .....	3
PARA 180 Law Office Management.....	3
PARA 215 Legal Research and Writing (R/W/S) .....	3
PARA 220 Probate Law .....	3
PARA 230 Family Law .....	3
PARA 240 Debtor-Creditor and Bankruptcy Law.....	3
PARA 270 Legal Internship .....	0-2
PARA 290 Research/Professional Seminar(S) .....	3
One Biological and One Physical Lab Science Elective .....	7-8*

\* Required credits for Physical and Biological Science Laboratories are counted in the Liberal Education Core area.

*The Computer Skills requirement is met by CNET 155 or a Computer Course in Homeland Security and Public Safety Applications.*

**124-135**



**HOSPITALITY 7452**  
**A One-Year Certificate of Program Completion**

This certificate program will prepare graduates for entry-level positions in hotel/motel management, restaurant management, and tourism related careers. Those who complete the program will possess the basic knowledge and skills required for diverse careers in the hospitality industry. Graduates will understand the principles of customer service and hospitality.

	<b>Credit Hours</b>
ENGL 101 English Composition I .....	3
HOTL 120 Front Office Management .....	3
HOTL 150 Housekeeping and Maintenance Management .....	3
HOTL 230 Hospitality Budgeting, Forecasting, and Cost Controls .....	3
HOTL 240 Hospitality Security -or-	
HOTL 242 Dining Room Management .....	1
HOTL 241 Hospitality Customer Services .....	1
REST 100 Introduction to Hospitality Management .....	3
REST 120 Food Service Sanitation .....	3
REST 200 Hospitality Human Resources Management .....	3
REST 220 Legal Aspects of the Hospitality Industry .....	3
SPCH 143 Speech -or-	
SPCH 148 Interpersonal Communication .....	3

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<i>Recommended Sequence of Courses</i>	
(This sequence assumes any necessary developmental requirements have been met.)	
Semester I	
ENGL 101 .....	3
HOTL 150 .....	3
HOTL 240/242 .....	1
HOTL 241 .....	1
REST 100 .....	3
SPCH 143/148.....	3
Total Hours: 14	
Semester II	
HOTL 120 .....	3
HOTL 230 .....	3
REST 120 .....	3
REST 200 .....	3
REST 220.....	3
Total Hours: 15	

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in ENGL 009 or 011, READ 009 and 011, and MATH 011, MATT 103, 105 or 109.



**HOSPITALITY/CULINARY ARTS CERTIFICATE 7453**  
**A One-Year Certificate of Program Completion**

This program is a mixture of beginning hospitality courses with an emphasis on the technical skills needed for food preparation. The demand for hospitality workers is steadily increasing. The completion of this certificate will be an asset to the individual whether they wish to immediately enter the work force or continue their college studies towards an associate's degree in Hospitality.

<b>Major Program Requirements</b>	<b>Credit Hours</b>
CULN 110 Quantity Food Production .....	6
HOTL 241 Hospitality Customer Services .....	1
HOTL 242 Dining Room Management .....	1
OADM 107 Business Protocol Seminar .....	1
REST 100 Introduction to Hospitality Management .....	3
REST 120 Food Service Sanitation .....	3
REST 155 Quantity Food Purchasing .....	3
REST 270 Hospitality Services Internship .....	2
—	<b>20</b>

<i>Recommended Sequence of Courses</i>	
(This sequence assumes any necessary developmental requirements have been met.)	
Semester I	
REST 100 .....	3
REST 120 .....	3
Total Hours: 6	
Semester II	
CULN 110 .....	6
Total Hours: 6	
Semester III	
REST 155 .....	3
HOTL 241 .....	1
HOTL 242 .....	1
OADM 107 .....	1
Total Hours: 6	
Semester IV	
REST 270 .....	2
Total Hours: 2	

**NOTE:** All students must satisfy the University's minimal requirements through placement tests or enrollment in ENGL 009 or 011, READ 009 and 011, and MATH 011, MATH 103, 105 or 109.

**HOTEL AND MOTEL MANAGEMENT 7450**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum offers prospective hotel/motel managers a comprehensive program of study in lodging management practices. The program combines theory of management, sales, forecasting with practical applications of front desk techniques, reservations, conventions, guest reception and comfort. This program will provide the fundamentals of the many varied aspects of hotel and motel management to prepare students for careers in this segment of hospitality. Typical entry-level positions include front desk supervisor, manager trainee, departmental supervisor or assistant manager.

		Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>		<b>39-41</b>	<b>36 -38</b>		
HOTL 120	Front Office Management .....	3	3	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
HOTL 150	Housekeeping and Maintenance Management .....	3	3		
HOTL 200	Hotel and Restaurant Food Operations .....	6	6		
HOTL 210	Hotel Conventions and Marketing .....	3	3		
HOTL 230	Hospitality Budgeting, Forecasting and Cost Controls .....	3	3		
HOTL 240	Hospitality Security.....	1	1		
HOTL 241	Hospitality Customer Services.....	1	1		
HOTL 242	Dining Room Management.....	1	1		
REST 100	Introduction to Hospitality Management ..	3	3		
REST 120	Food Service Sanitation .....	3	3		
REST 200	Hospitality Human Resources Management.....	3	3		
REST 210	Beverage Sales and Service .....	3	3		
REST 220	Legal Aspects of the Hospitality Industry.	3	3		
REST 270	Hospitality Services Internship <sup>1</sup> .....	0-2	0-2		
	Elective .....	3	-		
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>					
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>		
ENGL 101	English Composition I .....	3	3		
MATH 101	Intermediate Algebra (or higher mathematics).....	-	3		
	100-level or Higher Mathematics Course .....	3	-		
SPCH 143	Speech -or-				
SPCH 148	Interpersonal Communication .....	3	3		
<i>The Reading Intensive requirement may be met by REST 220.</i>					
<i>The Writing and Speaking Intensive requirements may be met by REST 200.</i>					
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>					
<b>Liberal Education Core</b>		<b>14</b>	<b>20</b>		
ENGL 102	English Composition II -or-				
ENGL 107	Business English -or-				
ENGL 108	Technical Writing .....	3	3		
PFWL 100	Lifetime Fitness/Wellness .....	2	2		
				<b>Semester I</b>	<b>Semester I</b>
				ENGL 101 .....3	ENGL 101 .....3
				REST 100 .....3	MATH 101 .....3
				REST 120 .....3	REST 100 .....3
				SPCH 143/148 .....3	REST 120 .....3
				Math Elec ..... 3	SPCH 143/148 ..... 3
				Total Hours: 15	Total Hours: 15
				<b>Semester II</b>	<b>Semester II</b>
				ENGL 107/108 .....3	ENGL 102/107/108 .....3
				HOTL 120 .....3	HOTL 120 .....3
				HOTL 150 .....3	HOTL 120 .....3
				REST 220(R) .....3	HOTL 150 .....3
				Lab Science Elec... 3	REST 220(R) .....3
				Total Hours: 15	Lab Science Elec... 3
					Total Hours: 15
				<b>Semester III</b>	<b>Semester III</b>
				HOTL 200 .....6	HOTL 200 .....6
				HOTL 210 .....3	HOTL 210 .....3
				PFWL 100 .....2	PFWL 100 .....2
				REST 200(W/S) .....3	REST 200(W/S) .....3
				REST 210 ..... 3	REST 210 .....3
				Total Hours: 17	Humanities Elec... 3
					Total Hours: 20
				<b>Semester IV</b>	<b>Semester IV</b>
				HOTL 230 .....3	HOTL 230 .....3
				HOTL 240 .....1	HOTL 240 .....1
				HOTL 241 .....1	HOTL 241 .....1
				HOTL 242 .....1	HOTL 242 .....1
				PSYC 142 .....3	PSYC 142 .....3
				Elective..... 3	Hum/Sci/Math
				Soc Sci Elective..... 3	Elective .....3
				Total Hours: 15	Soc Sci Elective ..... 3
					Total Hours: 15

*(Continued on the following page)*

<sup>1</sup> This internship may be served in the summer after completing one year of the program. See course description for details.

PSYC 142 General Psychology .....	3	3
Laboratory Science Elective – Common Core List .....	3	3
Humanities Elective – Common Core List .....	-	3
Humanities or Science/Mathematics Elective – Broad Core List .....	-	3
Social Science Elective – Core List .....	3	3

*The Computer Skills requirement is met by Computers  
Across the Curriculum.*

**62-64 65 -67**

**INFORMATION TECHNOLOGY 5510**  
**A Two-Year Program Leading to the A.S. Degree**

The Information Technology curriculum includes a mixture of general education and information technology courses aimed at providing a foundation for further study and a career in the information technology field. Concentrations associated with this program are Web Design and Game Design and Programming. The Web Design Concentration provides an awareness and understanding of complexities and implications of designing a product that will conform to the rules and regulations of carrying commercial activities on the Internet. The Game Design and Programming concentration is designed to prepare students with the necessary skills in both the programming and game entertainment industry.

<b>Major Program Requirements<sup>1</sup></b>	<b>Credit Hours</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
	<b>38-39</b>	
COMP 107 Web Page Design .....	3	
COMP 110 Introduction to Computer Concepts -or-		
COMP 201 The Computer in Business .....	3	
COMP 113 Advanced Web Page Design .....	3	
COMP 130 Communication and Networking .....	3	
COMP 146 Personal Computer Configuration and Management .....	3	
COMP 176 Introduction to Visual Programming .....	3	
COMP 203 Visual C++ .....	3	
COMP 252 Introduction to Java Programming .....	3	
COMP 295 Systems Development .....	3	
ELEC 100 Basic Electricity and Electronics -or-		
CNET 150 Introduction to Firewalls and VPNs -and-		
CNET 235 NetPlus Preparatory <sup>2</sup> .....	5-6	
Approved Computer Electives <sup>3</sup> .....	6	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b> <span style="float: right;"><b>9</b></span>		
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra .....	3	
SPCH 143 Speech .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by COMP 295. The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b> <span style="float: right;"><b>22</b></span>		
ENGL 102 English Composition II .....	3	
ERTH 100 Earth Science -or-		
Lab Science Elective - Common Core List <sup>4</sup> .....	4	
LFSC 100 Human Biology -or-		
Lab Science Elective - Common Core List <sup>5</sup> .....	4	
PFWL 100 Lifetime Fitness/Wellness .....	2	
Humanities Elective - Common Core List <sup>6</sup> .....	3	
SOCL 151 Principles of Sociology .....	3	
Social Science Elective – Core List .....	3	
<i>Computer Skills are enhanced by Major Program Requirement.</i>		

<b>Semester I</b>
COMP 107 ..... 3
COMP 130 ..... 3
COMP 176 ..... 3
ENGL 101 ..... 3
MATH 101 ..... 3
SOCL 151 ..... 3
Total Hours: 18
<b>Semester II</b>
COMP 110/201 ..... 3
COMP 113 ..... 3
COMP 146 ..... 3
ENGL 102 ..... 3
PFWL 100 ..... 2
SPCH 143 ..... 3
Total Hours: 17
<b>Semester III</b>
COMP 203 ..... 3
ELEC 100 or CNET 150/CNET 235 ..... 5-6
LFSC 100/Lab Sci Elec ..... 4
Computer Elecs ... 6
Total Hours: 18-19
<b>Semester IV</b>
COMP 252 ..... 3
ERTH 100/Lab Sci Elec ..... 4
Humanities Elec ..... 3
COMP 295(R/W/S) ..... 3
Soc Sci Elective ..... 3
Total Hours: 16
<b>Total Cr Hrs ..... 69-70</b>

(Continued on the following page)

<sup>1</sup> Some courses listed as Major Program Requirements will be replaced by courses listed in a concentration.  
<sup>2</sup> Students transferring to Indiana State University should take ELEC 100 Basic Electricity and Electronics.  
<sup>3</sup> Approved Computer Electives: COMP 180 COBOL Programming, COMP 193 Oracle Fundamentals/SQL\*Plus, COMP 215 Database Management/SQL, CNET 231 Microsoft Windows Administration, CNET 233 UNIX/Linux Administration, CNET 240 Web Server Management, CWEB 150 Web Development, CWEB 151 Introduction to Web Graphics and Tools, CWEB 213 Web-based Electronic Commerce, CWEB 254 Web Security and Ethical Issues, DESN 120 Computer Illustration, DESN 215 Multimedia I.  
<sup>4</sup> Students transferring to Indiana State University should take EARTH 100 Earth Science.  
<sup>5</sup> Students transferring to Indiana State University should take LFSC 100 Human Biology.  
<sup>6</sup> Students transferring to Indiana State University should take PHIL 212 Introduction to Ethics.

**Courses in Concentrations:**

**Web Design Concentration 5512 21**

CWEB 211 Project Management .....	3
CWEB 215 Dynamic Web Applications.....	3
CWEB 253 Advanced Web Development with Flash .....	3
DESN 110 Visual Design .....	3
DESN 125 Graphic Design I.....	3
DESN 200 Computer Imaging .....	3
DESN 210 Graphic Design II .....	3

**Programming and Game Development Concentration 5513 18**

COMP 115 Game Design Theory .....	3
COMP 150 Game and Artificial Intelligence Programming I.....	3
COMP 190 Game Modeling and Animation I.....	3
COMP 250 Game and Artificial Intelligence Programming II .....	3
COMP 276 Advanced Visual Programming .....	3
COMP 290 Game Modeling and Animation II.....	3

**Recommended Sequence of Courses for Concentration Areas follow: (Each sequence assumes any necessary developmental requirements have been met.)**

WEB DESIGN 5512	PROGRAMMING AND GAME DEVELOPMENT 5513
<b>Semester I</b>	<b>Semester I</b>
COMP 107..... 3	COMP 107 ..... 3
COMP 110..... 3	COMP 115 ..... 3
COMP 176..... 3	COMP 150 ..... 3
ENGL 101 ..... 3	COMP 176 ..... 3
PFWL 100 or PFWL 115/HLTH 211 ..... 2-3	COMP 190 ..... 3
DESN 110 ..... 3	ENGL 101 ..... 3
Total Hours: 17-18	Total Hours: 18
<b>Semester II</b>	<b>Semester II</b>
COMP 113..... 3	COMP 110/201 ..... 3
CWEB 151 ..... 3	COMP 250 ..... 3
MATH 101 or Higher ... 3	COMP 276 ..... 3
SPCH 143 ..... 3	ENGL 102 ..... 3
DESN 125 ..... 3	MATH 101 ..... 3
DESN 200 ..... 3	SPCH 143..... 3
Total Hours: 18	Total Hours: 18
<b>Semester III</b>	<b>Semester III</b>
COMP 130..... 3	COMP 203 ..... 3
CWEB 215 ..... 3	COMP 215 ..... 3
DESN 210 ..... 3	DESN 215 ..... 3
DESN 215 ..... 3	LFSC 100/Lab Sci
ENGL 102 ..... 3	Elec ..... 4
Lab Science Elective... 3	PFWL 100 ..... 2
Total Hours: 18	SOCL 151 ..... 3
	Total Hours: 18
<b>Semester IV</b>	<b>Semester IV</b>
COMP 252..... 3	COMP 252 ..... 3
CWEB 211(R/W/S)..... 3	COMP 290(R/W/S) ... 3
CWEB 253 ..... 3	ERTH 100/Lab Sci
Art History Elective ..... 3	Elec ..... 4
Social Science Elec ..... 6	Humanities Elec ..... 3
Hum/Sci/Mth Elec <sup>1</sup> ..... 3	Soc Sci Elective ..... 3
Total Hours: 21	Total Hours: 16
<b>Total Cr Hrs..... 74-75</b>	<b>Total Cr Hrs ..... 70</b>

<sup>1</sup> ARTT 110 Art Appreciation if needed as a prerequisite for the Art History elective.

**INTRODUCTION TO FOOD SERVICE CERTIFICATE 7252**  
**A Certificate of Program Completion**

This program is designed for students interested in securing basic kitchen skills which could better prepare them for entry level restaurant positions. Completion of this program will earn a Food Service Certificate. It is primarily for two populations: non-degree seekers preparing for work or individuals who have substantial developmental course requirements, making this a perfect stepping stone to the Culinary Arts degree program.

	<b>Credit Hours</b>																	
CULN 100 Introduction to Food Preparation .....	6	<p style="text-align: center;"><i><b>Recommended Sequence of Courses</b></i>                      (This sequence assumes any necessary developmental requirements have been met.)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="background-color: #cccccc; text-align: center;"><b>Semester I</b></td> </tr> <tr> <td style="width: 80%;">CULN 100.....</td> <td style="text-align: right;">6</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Hours: 6</td> </tr> <tr> <td colspan="2" style="background-color: #cccccc; text-align: center;"><b>Semester II</b></td> </tr> <tr> <td>CULN 101 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>REST 115 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>SPCH 143 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Hours: 9</td> </tr> </table>	<b>Semester I</b>		CULN 100.....	6	Total Hours: 6		<b>Semester II</b>		CULN 101 .....	3	REST 115 .....	3	SPCH 143 .....	3	Total Hours: 9	
<b>Semester I</b>																		
CULN 100.....	6																	
Total Hours: 6																		
<b>Semester II</b>																		
CULN 101 .....	3																	
REST 115 .....	3																	
SPCH 143 .....	3																	
Total Hours: 9																		
CULN 101 Introduction to Sanitation .....	3																	
REST 115 Successful Strategies for Employment .....	3																	
SPCH 143 Speech .....	3																	
<hr style="width: 100%; border: 0.5px solid black;"/>																		
<b>15</b>																		

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011 and MATH 011.

**LASER TECHNOLOGY 8400**  
**A One-Year Certificate of Program Completion**

This is an intensive one-year program designed for individuals with a minimum of an A. A.S. in Electronics Technology from an approved institution. The curriculum is designed to enhance skills in the areas of lasers, optics, electro-optics, and vacuum technology by providing extensive hands-on experience in a well-equipped laser facility.

	<b>Credit Hours</b>																							
LASR 230 Optical Metrology and Holography .....	4	<p style="text-align: center;"><i><b>Recommended Sequence of Courses</b></i>                      (This sequence assumes any necessary developmental requirements have been met.)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="background-color: #cccccc; text-align: center;"><b>Semester I</b></td> </tr> <tr> <td style="width: 80%;">LASR 235 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>LASR 240 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>MTTD 135 .....</td> <td style="text-align: right;">2</td> </tr> <tr> <td>MTTD 135L .....</td> <td style="text-align: right;">1</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Hours: 9</td> </tr> <tr> <td colspan="2" style="background-color: #cccccc; text-align: center;"><b>Semester II</b></td> </tr> <tr> <td>LASR 230 .....</td> <td style="text-align: right;">4</td> </tr> <tr> <td>LASR 290 .....</td> <td style="text-align: right;">4</td> </tr> <tr> <td>Lab Science Elec.....</td> <td style="text-align: right;">3</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Hours: 11</td> </tr> </table>	<b>Semester I</b>		LASR 235 .....	3	LASR 240 .....	3	MTTD 135 .....	2	MTTD 135L .....	1	Total Hours: 9		<b>Semester II</b>		LASR 230 .....	4	LASR 290 .....	4	Lab Science Elec.....	3	Total Hours: 11	
<b>Semester I</b>																								
LASR 235 .....	3																							
LASR 240 .....	3																							
MTTD 135 .....	2																							
MTTD 135L .....	1																							
Total Hours: 9																								
<b>Semester II</b>																								
LASR 230 .....	4																							
LASR 290 .....	4																							
Lab Science Elec.....	3																							
Total Hours: 11																								
LASR 235 Introduction to Optics .....	3																							
LASR 240 Introduction to Lasers .....	3																							
LASR 290 Laser Applications .....	4																							
MTTD 135 Manufacturing Processes .....	2																							
MTTD 135L Manufacturing Processes Laboratory.....	1																							
Laboratory Science Elective .....	3																							
<hr style="width: 100%; border: 0.5px solid black;"/>																								
<b>20</b>																								

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**LAW ENFORCEMENT 7500**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This program provides a broad base of instruction concerning the criminal justice system and enhances the student's possibility of employment with the law enforcement agency of his choice. The A.A.S. degree program is designed for students wishing to begin employment immediately upon receiving their degree. The A.S. degree program is designed for students wishing to transfer to a baccalaureate degree institution. For students enrolled in the Florida Education Program: Licensed by the Commission for Independent Education, Florida Department of Education. Additional information regarding this institution may be obtained by contacting the Commission at 325 W. Gaines Street, Ste. 1414, Tallahassee, FL 32399-0400; toll free # (888) 224-6684.

<b>Major Program Requirements</b>	<b>Credit Hours - A.A.S.</b>	<b>A.S.</b>	<b>Recommended Sequence of Courses for A.A.S.</b>	<b>Recommended Sequence of Courses for A.S.</b>
	<b>36</b>	<b>33</b>		
LAWE 100 Survey of Criminal Justice .....	3	3	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
LAWE 106 Introduction to Traffic Control.....	3	3		
LAWE 150 Introduction to Criminology .....	3	3		
LAWE 155 Substantive Criminal Law.....	3	3		
LAWE 160 Criminal Investigation .....	3	3		
LAWE 200 Criminalistics I.....	3	3		
LAWE 205 Procedural Criminal Law .....	3	3		
LAWE 210 Police Operations and Community Relations .....	3	3		
LAWE 250 Juvenile Delinquency.....	3	3		
LAWE 260 Criminalistics II .....	3	3		
Electives <sup>1</sup> .....	6	3		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>		
ENGL 101 English Composition I .....	3	3	ENGL 101 .....3 LAWE 100 .....3 LAWE 106 .....3 SOCL 151 .....3 Math Elec .....3 Total Hours: 15	ENGL 101 .....3 LAWE 100 .....3 LAWE 106 .....3 MATH 101 .....3 SOCL 151 .....3 Total Hours: 15
MATH 101 Intermediate Algebra (or higher mathematics).....	-	3		
100-level or Higher Mathematics Course .....	3	-		
SPCH 143 Speech -or-				
SPCH 148 Interpersonal Communication .....	3	3		
<i>The Reading Intensive requirement may be met by LAWE 210.</i>				
<i>The Writing Intensive requirement may be met by LAWE 260.</i>				
<i>The Speaking Intensive requirement may be met by LAWE 205.</i>				
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>				
			<b>Semester I</b>	<b>Semester I</b>
			<b>Semester II</b>	<b>Semester II</b>
			<b>Semester III</b>	<b>Semester III</b>
			<b>Semester IV</b>	<b>Semester IV</b>
			LAWE 200 .....3 LAWE 205(S) .....3 LAWE 210(R) .....3 PSYC 141/142 .....3 PFWL 100 .....2 Elective.....3 Total Hours: 17	LAWE 200 .....3 LAWE 205(S) .....3 LAWE 210(R) .....3 PSYC 142 .....3 PFWL 100 .....2 Humanities Elec.....3 Total Hours: 17
			LAWE 250 .....3 LAWE 260 (W).....3 Humanities Elec .....3 Science Elec .....3 Elective.....3 Total Hours: 15	LAWE 250 .....3 LAWE 260(W) .....3 Hum/Sci/Math Elective .....3 Lab Science Elec.....3 Elective .....3 Total Hours: 15

(Continued on the following page)

<sup>1</sup> Elective courses may include LAWE 215 Police Administration and Organization, LAWE 270 Internship in Law Enforcement, or LAWE 280 Honors Seminar in Criminal Justice.

<b><i>Liberal Education Core</i></b>	<b>17</b>	<b>20</b>
ENGL 102 English Composition II .....	3	3
PFWL 100 Lifetime Fitness/Wellness .....	2	2
PSYC 141 Applied Psychology -or-		
PSYC 142 General Psychology <sup>1</sup> .....	3	3
SOCL 151 Principles of Sociology .....	3	3
Laboratory Science Elective – Common Core List .....	-	3
Science Elective – Common Core List .....	3	-
Humanities Elective – Common Core List .....	-	3
Humanities or Science/Mathematics Elective –		
Broad Core List .....	-	3
Humanities Elective – Broad Core List .....	3	-
<i>The Computer Skills requirement is met by Computers</i>		
<i>Across the Curriculum.</i>		
	<b>62</b>	<b>6</b>
		<b>2</b>

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<sup>1</sup> A.S. students must complete PSYC 142.



**LAW ENFORCEMENT STUDIES CERTIFICATE 7502**  
**A One-Year Certificate of Program Completion**

This certificate program is designed for students in the Military to successfully complete a certificate program in Law Enforcement while on active duty or active Reserves. The curriculum provides a broad base of instruction concerning the criminal justice system and prepares students to pursue an entry-level civilian career in Law Enforcement.

	<b>Credit Hours</b>
ENGL 101 English Composition I .....	3
LAWE 150 Introduction to Criminology .....	3
LAWE 155 Substantive Criminal Law .....	3
LAWE 205 Procedural Criminal Law .....	3
LAWE 210 Police Operations and Community Relations .....	3
LAWE 215 Police Administration and Organization .....	3
LAWE 225 Introduction to Forensic Science .....	3
LAWE 250 Juvenile Delinquency .....	3
SPCH 143 Speech .....	3
—	<b>27</b>

<i>Recommended Sequence of Courses</i>
(This sequence assumes any necessary developmental requirements have been met.)
<b>Semester I</b>
LAWE 150 ..... 3
LAWE 155 ..... 3
LAWE 205 ..... 3
ENGL 101 ..... 3
SPCH143 ..... 3
Total Hours: 15
<b>Semester II</b>
LAWE 210 ..... 3
LAWE 215 ..... 3
LAWE 225 ..... 3
LAWE 250 ..... 3
Total Hours: 12

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011 and MATH 011, MATT 103, 105 or 109.

**LAW ENFORCEMENT STUDIES CONCENTRATION 7501**  
**A Two-Year Program Leading to the A.A.S. or A.S.**

This program provides a broad base of instruction concerning the criminal justice system and allows students in the Distance Education Program to successfully complete the associate of science degree in the Law Enforcement major.

	Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>	<b>39</b>	<b>33</b>		
LAWE 100 Survey of Criminal Justice .....	3	3	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
LAWE 106 Introduction to Traffic Control.....	3	3		
LAWE 150 Introduction to Criminology .....	3	3		
LAWE 155 Substantive Criminal Law.....	3	3		
LAWE 160 Criminal Investigation .....	3	3		
LAWE 205 Procedural Criminal Law .....	3	3		
LAWE 210 Police Operations and Community Relations .....	3	3		
LAWE 215 Police Administration and Organization ...	3	3		
LAWE 225 Introduction to Forensic Science.....	3	3		
LAWE 250 Juvenile Delinquency.....	3	3		
LAWE 275 Practicum in Law Enforcement <sup>1</sup> .....	3	3	<b>Semester I</b>	<b>Semester I</b>
Elective .....	6	-	ENGL 101 .....3	ENGL 101 .....3
			LAWE 100 .....3	LAWE 100 .....3
			LAWE 106 .....3	LAWE 106 .....3
			SOCL 151 .....3	MATH 101 .....3
			Math Elec .....3	SOCL 151 .....3
			Total Hours: 15	Total Hours: 15
			<b>Semester II</b>	<b>Semester II</b>
<b>General Education Requirements</b>			ENGL 102 .....3	ENGL 102 .....3
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			LAWE 150 .....3	LAWE 150 .....3
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>	LAWE 155 .....3	LAWE 155 .....3
ENGL 101 English Composition I .....	3	3	LAWE 160 .....3	LAWE 160 .....3
MATH 101 Intermediate Algebra (or higher mathe- matics).....	-	3	SPCH 143 .....3	SPCH 143 .....3
100-level or Higher Mathematics Course .....	3	-	Total Hours: 15	Total Hours: 15
SPCH 143 Speech .....	3	3	<b>Semester III</b>	<b>Semester III</b>
			LAWE 205(S) .....3	LAWE 205(S) .....3
			LAWE 210(R) .....3	LAWE 210(R) .....3
			LAWE 225(W) .....3	LAWE 225(W) .....3
			PFWL 100 .....2	PFWL 100 .....2
			PSYC 142 .....3	PSYC 142 .....3
			Elective.....3	Humanities Elec.....3
			Total Hours: 17	Total Hours: 17
			<b>Semester IV</b>	<b>Semester IV</b>
<b>Liberal Education Core</b>	<b>14</b>	<b>20</b>	LAWE 215 .....3	LAWE 215 .....3
ENGL 102 English Composition II .....	3	3	LAWE 250 .....3	LAWE 250 .....3
PFWL 100 Lifetime Fitness/Wellness .....	2	2	LAWE 275 .....3	LAWE 275 .....3
PSYC 142 General Psychology .....	3	3	Science Elec .....3	Hum/Sci/Math Elective .....3
SOCL 151 Principles of Sociology .....	3	3	Elective.....3	Lab Science Elec.....3
Laboratory Science Elective – Common Core List .....	-	3	Total Hours: 15	Total Hours: 15
Science Elective – Common Core List.....	3	-		
Humanities Elective – Common Core List .....	-	3		
Humanities or Science/Mathematics Elective – Broad Core List .....	-	3		
<i>The Reading Intensive requirement may be met by LAWE 210.</i>				
<i>The Writing Intensive requirement may be met by LAWE 225.</i>				
<i>The Speaking Intensive requirement may be met by LAWE 205.</i>				
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment exami- nation.</i>				
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>				

<sup>1</sup> A sworn police officer may elect to take an elective in place of LAWE 275 Practicum in Law Enforcement.



**LIBERAL ARTS 2400**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This broad-based curriculum provides the general education required of majors in many areas of concentration at the baccalaureate institutions to which they transfer.

	Credit Hours - A.S.	A.A.
<b>Major Program Requirements</b>	<b>34 28</b>	<b>-30</b>
ARTT 110 Art Appreciation -or-		
MUSM 118 Music Appreciation.....	3	3
HIST 131 Survey of European History I -or-		
HIST 139 American History I.....	3	3
HIST 132 Survey of European History II -or-		
HIST 140 American History II .....	3	3
PHIL 111 Introduction to Philosophy .....	3 3	
PHIL 212 Introduction to Ethics.....	3	3
Computer Literacy Elective.....	3	3
Foreign Language -or- Electives <sup>1</sup> .....	12	6-8
Laboratory Science Elective.....	4	4

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>
ENGL 101 English Composition I .....	3 3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	3
SPCH 143 Speech .....	3 3	

*The Reading, Writing and Speaking Intensive requirements may be met by PHIL 212.*

*The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>	<b>21</b>	<b>29</b>
ECON 201 Microeconomics -or-		
SOCL 151 Principles of Sociology .....	3	3
ECON 202 Macroeconomics -or-		
SOCL 252 Social Problems -or-		
SOCL 245 Cultural Diversity: Sociology .....	3	3
ENGL 102 English Composition II .....	3 3	
HUMN 210 Introduction to Humanities I -or-		
LITR 220 Introduction to World Literature I <sup>2</sup> -or-		
LITR 227 World Fiction.....	3	3
HUMN 211 Introduction to Humanities II -or-		
LITR 221 Introduction to World Literature II <sup>2</sup> .....	3	3
PFWL 100 Lifetime Fitness/Wellness .....	2	2
Laboratory Science Elective – Common Core List .....	4	4
Foreign Language Electives .....	-	8

*Computer Skills are enhanced by the Computer Literacy Elective.*

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<i>Recommended Sequence of Courses for A.S.</i> (This assumes any necessary developmental requirements have been met.)	<i>Recommended Sequence of Courses for A.A.</i> (This assumes any necessary developmental requirements have been met.)
<b>Semester I</b>	<b>Semester I</b>
ARTT 110/ MUSM 118..... 3 ENGL 101.....3 SPCH 143.....3 For Lang/Elec..... 6 Total Hours: 15	ARTT 110/ MUSM 118..... 3 ENGL 101.....3 HIST 131/139.....3 SPCH 143.....3 For Lang/Elec..... 3-4 Total Hours: 15-16
<b>Semester II</b>	<b>Semester II</b>
ENGL 102/210..... 3 MATH 101.....3 For Lang/Elec..... 6 Lab Science Elec... 4 Total Hours: 16	ENGL 102/210..... 3 HIST 132/140..... 3 MATH 101..... 3 Foreign Lang..... 3-4 Lab Sci Elec..... 4 Total Hours: 16-17
<b>Semester III</b>	<b>Semester III</b>
ECON 201/ SOCL 151..... 3 HIST 131/139..... 3 HUMN 210/ LITR 220/227..... 3 PHIL 111.....3 Lab Science Elec... 4 Total Hours: 16	ECON 201/ SOCL 151..... 3 HUMN 210/ LITR 220/227..... 3 PHIL 111.....3 Foreign Lang Elec... 4 Lab Sci Elec..... 4 Total Hours: 17
<b>Semester IV</b>	<b>Semester IV</b>
ECON 202/ SOCL 245/252..... 3 HIST 132/140..... 3 HUMN 211/ LITR 221.....3 PFWL 100.....2 PHIL 212(R/W/S).....3 Comp Lit Elec..... 3 Total Hours: 17	ECON 202/ SOCL 245/252..... 3 HUMN 211/ LITR 221.....3 PFWL 100.....2 PHIL 212(R/W/S).....3 Comp Lit Elec..... 3 Foreign Lang Elec. 4 Total Hours: 18

<sup>1</sup> Foreign language is not required for the A.S. degree; however, it is required of students transferring to Indiana University and Purdue University on this curriculum. Recommended electives include: EARTH 210 General Astronomy, HUMN 245 Cultural Diversity: Humanities, MATH 115 Survey of Calculus I, MGMT 100 Introduction to Business, PHIL 213 Logic, PHIL 220 Philosophy of Religion, POLS 211 Introduction to World Politics, and POLS 212 Political Science Seminar.

<sup>2</sup> Students should check degree specifications of transfer institutions.

**LIBERAL ARTS – ANTHROPOLOGY CONCENTRATION 1451**  
**A Two-Year Transfer Program Leading to the A.S Degree**

This curriculum allows students to begin a concentration in anthropology which will lead to a major in a specialized field. Anthropology prepares students for a specialty in one of four areas after transfer: cultural anthropology, archaeology, linguistics, or physical anthropology.

	Credit Hours
<b>Major Program Requirements</b>	<b>36</b>
COMP 201 The Computer in Business .....	3
ENGL 249 Elements of General Linguistics .....	3
ERTH 105 Geography of Indiana .....	3
ERTH 115 Physical Geology .....	3
ERTH 115L Physical Geology Laboratory .....	2
HIST 232 Indiana History .....	3
LFSC 100 Human Biology .....	4
POLS 211 Introduction to World Politics -or-	
SOCL 245 Cultural Diversity: Sociology .....	3
SOCL 151 Principles of Sociology .....	3
SOCL 154 Cultural Anthropology .....	3
SOCL 210 Organizational Sociology .....	3
SOCL 254 Introduction to Archaeology .....	3

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition I .....	3
MATH 102 College Algebra .....	3
SPCH 143 Speech .....	3

*The Reading, Writing and Speaking and Intensive requirements may be met by POLS 211 or SOCL 245.*

*The Mathematics Intensive requirement may be met by MATH 102.*

<b>Liberal Education Core</b>	<b>22</b>
ARTT 220 Photography I .....	3
CHEM 103 Introduction to Chemistry .....	3
CHEM 103L Introduction to Chemistry Laboratory .....	2
ENGL 102 English Composition II .....	3
HIST 235 World Civilization I .....	3
HIST 236 World Civilization II .....	3
PFWL 100 Lifetime Fitness/Wellness .....	2
Humanities Elective – Common Core List .....	3

*Computer Skills are enhanced by COMP 201.*

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<b>Recommended Sequence of Courses</b>	
(This sequence assumes any necessary developmental requirements have been met.)	
Semester I	
ENGL 101 .....	3
ERTH 115 .....	3
ERTH 115L .....	2
HIST 235 .....	3
SOCL 151 .....	3
Total Hours: 14	
Semester II	
ARTT 220 .....	3
ENGL 102 .....	3
HIST 236 .....	3
PFWL 100 .....	2
SOCL 154 .....	3
SOCL 254 .....	3
SPCH 143 .....	3
Total Hours: 20	
Semester III	
COMP 201 .....	3
ENGL 249 .....	3
ERTH 105 .....	3
MATH 102(M) .....	3
Humanities Elec .....	3
Total Hours: 15	
Semester IV	
CHEM 103 .....	3
CHEM 103L .....	2
HIST 232 .....	3
LFSC 100 .....	4
POLS 211/	
SOCL 245(RWS) .....	3
SOCL 210 .....	3
Total Hours: 18	

**LIBERAL ARTS – ECONOMICS CONCENTRATION 1453**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This curriculum allows students to begin a concentration in economics that will lead eventually to a major in that field. Economics prepares students for positions in business, industry, law, government service, and teaching.

	Credit Hours - A.S.	A.A.	<i>Recommended Sequence of Courses for A.S.</i>	<i>Recommended Sequence of Courses for A.A.</i>
<b>Major Program Requirements</b>	<b>33</b>	<b>27</b>		
COMP 201 The Computer in Business .....	3	3	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  ENGL 101 .....3 MATH 102(M) .....3 Humanities Elec .....3 Lab Science Elec .....3 Soc Sci Elec .....3 Total Hours: 15	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  ENGL 101 .....3 MATH 102(M) .....3 Foreign Lang .....4 Lab Science Elec .....3 Total Hours: 13
ECON 201 Microeconomics .....	3	3		
ECON 202 Macroeconomics .....	3	3		
ECON 203 Survey of Labor Economics .....	3	3		
ECON 208 Personal Financial Management .....	3	3		
HIST 139 American History I .....	3	3		
HIST 140 American History II .....	3	3		
MATH 110 Statistics -or-				
MATH 115 Survey of Calculus I .....	3	3		
POLS 111 American National Government -or-				
POLS 112 State and Local Government .....	3	-		
POLS 210 Personal Law .....	3	-		
POLS 211 Introduction to World Politics .....	3	3		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			<b>Semester II</b>	<b>Semester II</b>
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>	ECON 201(R) .....3 ENGL 102 .....3 PFWL 100 .....2 SPCH 143 .....3 Humanities Elec .....3 Soc Sci Elec .....3 Total Hours: 17	ECON 201(R) .....3 ENGL 102 .....3 PFWL 100 .....2 SPCH 143 .....3 Foreign Lang .....4 Humanities Elec .....3 Total Hours: 18
ENGL 101 English Composition I .....	3	3		
MATH 102 College Algebra .....	3	3		
SPCH 143 Speech .....	3	3		
<i>The Reading Intensive requirement may be met by ECON 201 or POLS 211.</i>				
<i>The Writing and Speaking Intensive requirements may be met by POLS 211.</i>				
<i>The Mathematics Intensive requirement may be met by MATH 102.</i>				
<b>Liberal Education Core</b>	<b>20</b>	<b>28</b>	<b>Semester III</b>	<b>Semester III</b>
ENGL 102 English Composition II .....	3	3	COMP 201 .....3 ECON 202 .....3 HIST 139 .....3 POLS 111/112 .....3 POLS 210 .....3 Total Hours: 15	COMP 201 .....3 ECON 202 .....3 HIST 139 .....3 POLS 111/112 .....3 POLS 210 .....3 Total Hours: 15
PFWL 100 Lifetime Fitness/Wellness .....	2	2		
POLS 111 American National Government -or-				
POLS 112 State and Local Government .....	-	3		
POLS 210 Personal Law .....	-	3		
Laboratory Science Elective – Common Core List .....	3	3		
Humanities Elective – Common Core List .....	3	3		
Humanities Elective – Broad Core List .....	3	3		
Social Science Electives – Core List .....	6	-		
Foreign Language Electives .....	-	8		
<i>Computer Skills are enhanced by COMP 201.</i>				
		<b>62 64</b>	<b>Semester IV</b>	<b>Semester IV</b>
			ECON 203 .....3 ECON 208 .....3 HIST 140 .....3 MATH 110/115 .....3 POLS 211(R/W/S) .....3 Total Hours: 15	ECON 203 .....3 ECON 208 .....3 HIST 140 .....3 MATH 110/115 .....3 POLS 211(R/W/S) .....3 Humanities Elec .....3 Total Hours: 18

**LIBERAL ARTS – ENGLISH CONCENTRATION 2150**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This curriculum offers the first two years of study for students preparing for professions in publishing, public relations, linguistics, library science, or the teaching of English.

		Credit Hours - A.S.	A.A.	<i>Recommended Sequence of Courses for A.S.</i>	<i>Recommended Sequence of Courses for A.A.</i>
<b>Major Program Requirements</b>		<b>33</b>	<b>25</b>		
COMP 101	Using the Windows Environment .....	-	1	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  ENGL 101 .....3 HIST 139 .....3 LITR 222 .....3 SPCH 143 .....3 Literature Elec .....3 Total Hours: 15  <b>Semester II</b>  ENGL 102 .....3 LITR 223 .....3 MATH 101 .....3 PFWL 100 .....2 SOCL 151 .....3 Literature Elec .....3 Total Hours: 17  <b>Semester III</b>  ENGL 249 .....3 LITR 224 .....3 PSYC 142 .....3 Dir Human Elec .....3 Lab Science Elec .....3 Total Hours: 15  <b>Semester IV</b>  ENGL 202/ Literature Elec .....3 ENGL 250 .....3 LITR 225(R/W/S) .....3 SPCH 201 .....3 Dir Human Elec .....3 Total Hours: 15	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  COMP 101 .....1 ENGL 101 .....3 HIST 139 .....3 LITR 222 .....3 PFWL 100 .....2 Foreign Lang .....4 Total Hours: 16  <b>Semester II</b>  ENGL 102 .....3 LITR 223 .....3 MATH 101 .....3 SPCH 143 .....3 Foreign Lang .....4 Total Hours: 16  <b>Semester III</b>  ENGL 249 .....3 LITR 224 .....3 SOCL 151 .....3 Dir Human Elec .....3 Lab Science Elec .....3 Total Hours: 15  <b>Semester IV</b>  ENGL 250 .....3 LITR 225(R/W/S) .....3 PSYC 142 .....3 SPCH 201 .....3 Dir Human Elec .....3 Total Hours: 15
ENGL 202	Creative Writing -or- Literature Elective.....	3	-		
ENGL 249	Elements of General Linguistics .....	3	3		
ENGL 250	English Grammar .....	3	3		
LITR 222	American Literature I.....	3	3		
LITR 223	American Literature II .....	3	3		
LITR 224	Survey of English Literature I.....	3	3		
LITR 225	Survey of English Literature II .....	3	3		
SOCL 151	Sociology .....	3	3		
SPCH 201	Voice and Articulation .....	3	3		
Literature Electives .....		6	-		
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>					
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>		
ENGL 101	English Composition I .....	3	3		
MATH 101	Intermediate Algebra (or higher mathematics).....	3	3		
SPCH 143	Speech .....	3	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by LITR 225.</i>					
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>					
<b>Liberal Education Core</b>		<b>20</b>	<b>28</b>		
ENGL 102	English Composition II .....	3	3		
HIST 139	American History I.....	3	3		
PFWL 100	Lifetime Fitness/Wellness .....	2	2		
PSYC 142	General Psychology .....	3	3		
Laboratory Science Elective – Common Core List .....		3	3		
Directed Humanities Elective – Common Core List <sup>1</sup> .....		3	3		
Directed Humanities Elective – Broad Core List <sup>1</sup> .....		3	3		
Foreign Language Electives .....		-	8		
<i>Computer Skills are enhanced by COMP 101. _____</i>					

<sup>1</sup> To be chosen from the following: ARTT 110 Art Appreciation, HUMN 110 Humanities I, HUMN 111 Humanities II, PHIL 111 Introduction to Philosophy, PHIL 212 Introduction to Ethics.

**LIBERAL ARTS – HISTORY CONCENTRATION 1454**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This curriculum allows students to begin a concentration in history that will lead eventually to a major in that field. History provides a good background for pre-law, government service, and teaching.

		Credit Hours - A.S.	A.A.	<i>Recommended Sequence of Courses for A.S.</i>	<i>Recommended Sequence of Courses for A.A.</i>
<b>Major Program Requirements</b>		<b>33</b>	<b>25</b>		
ECON 201	Microeconomics .....	3	-	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
ECON 202	Macroeconomics .....	3	-		
ERTH 207	World Geography .....	3	3		
HIST 125	History of American Technology -or-	-	-		
SOCL 254	Introduction to Archaeology .....	-	3		
HIST 139	American History I -and/or-	-	-		
HIST 235	World Civilization I .....	6	3		
HIST 140	American History II -and/or-	-	-		
HIST 236	World Civilization II .....	6	3		
POLS 111	American National Government .....	3	3		
POLS 201	Introduction to Political Science .....	3	3		
POLS 211	Introduction to World Politics <sup>1</sup> .....	3	3		
SOCL 151	Principles of Sociology .....	3	3		
	Elective .....	-	1		
<b>General Education Requirements</b>				<b>Semester I</b>	<b>Semester I</b>
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				ENGL 101 .....3	ENGL 101 .....3
<b>Basic Skills Core</b> <span style="float: right;"><b>9</b></span>				HIST 235 .....3	HIST 139/235 .....3
ENGL 101	English Composition I .....	3	3	SPCH 143 .....3	SPCH 143 .....3
MATH 101	Intermediate Algebra -or-	-	-	Soc Sci Elec.....3	Foreign Lang.....4
MATH 102	College Algebra .....	3	3	Total Hours: 12	Elective .....1
SPCH 143	Speech .....	3	3		Total Hours: 14
<i>The Reading Intensive requirement may be met by POLS 201 or 211 or ECON 201.</i>				<b>Semester II</b>	<b>Semester II</b>
<i>The Writing Intensive requirement may be met by POLS 201 or 211.</i>				ENGL 102 .....3	ENGL 102 .....3
<i>The Speaking Intensive requirement may be met by POLS 211.</i>				HIST 236 .....3	MATH 101/102(M) .3
<i>The Mathematics Intensive requirement may be met by MATH 102 or a subsequent mathematics course or by passing a mathematics assessment examination.</i>				MATH 101/102(M) .3	PFWL 100 .....2
<b>Liberal Education Core</b> <span style="float: right;"><b>20</b></span>				PFWL 100 .....2	POLS 201(R/W) .....3
ECON 201	Microeconomics .....	-	3	POLS 201(R/W) .....3	Foreign Lang.....4
ECON 202	Macroeconomics .....	-	3	Soc Sci Elec.....3	Total Hours: 15
ENGL 102	English Composition II .....	3	3	Total Hours: 17	
PFWL 100	Lifetime Fitness/Wellness .....	2	2	<b>Semester III</b>	<b>Semester III</b>
Laboratory Science Elective – Common Core List .....	3	3	3	ECON 201(R) .....3	ECON 201(R) .....3
Humanities Elective – Common Core List .....	3	3	3	ERTH 207 .....3	ERTH 207 .....3
Humanities Elective – Broad Core List .....	-	-	3	HIST 139 .....3	POLS 111 .....3
Social Science Electives – Core List .....	6	-	-	HIST 236 .....3	SOCL 151 .....3
Humanities, Science, or Mathematics Elective –	-	-	-	POLS 111 .....3	SOCL 151 .....3
Broad Core List .....	3	-	-	SOCL 151 .....3	Humanities Elec.....3
Foreign Language Electives .....	-	-	8	Hum/Sci/Math	Total Hours: 15
		-	-	Elective .....3	
		-	-	Total Hours: 18	
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>				<b>Semester IV</b>	<b>Semester IV</b>
				ECON 202 .....3	ECON 202 .....3
				HIST 140 .....3	HIST 125/ SOCL 254 .....3
				POLS 211(R/W/S) ...3	HIST 140/236 .....3
				Humanities Elec .....3	POLS 211(R/W/S) ...3
				Lab Science Elec...3	Humanities Elec.....3
				Total Hours: 15	Lab Science Elec...3
					Total Hours: 18

<sup>1</sup> Completion of POLS 211 Introduction to World Politics with a grade of C or better is a requirement for graduation for all Liberal Arts/History majors.



**LIBERAL ARTS – JOURNALISM CONCENTRATION 2350**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This news-editorial curriculum prepares students to transfer to departments and schools of journalism to complete the baccalaureate degree. Particular emphasis is applied to the development of skills in news and feature reporting-writing and in editing (copyreading).

		Credit Hours - A.S.	A.A.	<i>Recommended Sequence of Courses for A.S.</i>	<i>Recommended Sequence of Courses for A.A.</i>
<b>Major Program Requirements</b>		<b>34</b>	<b>30</b>		
JOUR 110	News Reporting .....	3	3	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  ENGL 101 .....3 JOUR 110 .....3 JOUR 111 .....2 POLS 111 .....3 PRNT 155 .....2 PRNT 155L .....2 Total Hours: 15  <b>Semester II</b>  ENGL 102 .....3 JOUR 112 .....3 JOUR 115 .....2 MATH 101 .....3 PFWL 100 .....2 SPCH 143/148.....3 Total Hours: 16  <b>Semester III</b>  HIST 139 .....3 JOUR 213 .....3 JOUR 214 .....2 POLS 112 .....3 Hum/Sci/Math Elective .....3 Literature Elec .....3 Total Hours: 17  <b>Semester IV</b>  HIST 140 .....3 JOUR 216(R/W/S) ...3 JOUR 217 .....2 Lab Science Elec .....3 Elective(s) .....4 Total Hours: 15	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  ENGL 101 .....3 JOUR 110 .....3 JOUR 111 .....2 POLS 111 .....3 PRNT 155 .....2 PRNT 155L .....2 Total Hours: 15  <b>Semester II</b>  ENGL 102 .....3 JOUR 112 .....3 JOUR 115 .....2 PFWL 100 .....2 POLS 112 .....3 SPCH 143/148 .....3 Total Hours: 16  <b>Semester III</b>  HIST 139 .....3 JOUR 213 .....3 JOUR 214 .....2 MATH 101 .....3 Foreign Lang .....4 Literature Elec .....3 Total Hours: 18  <b>Semester IV</b>  HIST 140 .....3 JOUR 216(R/W/S) ...3 JOUR 217 .....2 Foreign Lang .....4 Humanities Elec .....3 Lab Sci Elec .....3 Total Hours: 18
JOUR 111	News Reporting Laboratory .....	2	2		
JOUR 112	Editing .....	3	3		
JOUR 115	Editing Laboratory .....	2	2		
JOUR 213	Communications Law .....	3	3		
JOUR 214	Advanced Journalism Laboratory I .....	2	2		
JOUR 216	Mass Communications .....	3	3		
JOUR 217	Advanced Journalism Laboratory II .....	2	2		
POLS 111	American National Government .....	3	3		
POLS 112	State and Local Government .....	3	3		
PRNT 155	Computer Aided Publishing .....	2	2		
PRNT 155L	Computer Aided Publishing Laboratory ...	2	2		
	Electives .....	4	-		
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>					
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>		
ENGL 101	English Composition I .....	3	3		
MATH 101	Intermediate Algebra (or higher mathematics) .....	3	3		
SPCH 143	Speech -or-				
SPCH 148	Interpersonal Communication .....	3	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by JOUR 216.</i>					
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>					
<b>Liberal Education Core</b>		<b>20</b>	<b>28</b>		
ENGL 102	English Composition II .....	3	3		
HIST 139	American History I .....	3	3		
HIST 140	American History II .....	3	3		
PFWL 100	Lifetime Fitness/Wellness .....	2	2		
	Laboratory Science Elective – Common Core List .....	3	3		
	Literature Elective – Common Core List .....	3	3		
	Humanities Elective – Broad Core List .....	-	3		
	Humanities or Science/Mathematics Elective – Broad Core List .....	3	-		
	Foreign Language Electives .....	-	8		
<i>PRNT 155/155L fulfills the Computers Across the Curriculum requirement.</i>					

**LIBERAL ARTS – MODERN FOREIGN LANGUAGES CONCENTRATION 2200**  
**A Two-Year Transfer Program Leading to the A.A. Degree**

This curriculum offers the first two years of study for students preparing for professions as translators, interpreters, flight attendants, foreign service employees, or teachers of foreign languages. It offers also a broad general education for those interested in professions connected with public relations, travel, law, or international businesses.

	<b>Credit Hours</b>	
<b>Major Program Requirements<sup>1</sup></b>	<b>26</b>	<p align="center"><i>Recommended Sequence of Courses</i>                      (This sequence assumes any necessary developmental requirements have been met.)</p> <p><b>Semester I</b></p> ENGL 101 .....3 HIST 235 .....3 MATH 101 .....3 SPCH 143 .....3 Lang Level III ..... 4 Total Hours: 16 <p><b>Semester II</b></p> ENGL 102/210 .....3 HIST 236 .....3 PFWL 100 .....2 Lang Level IV .....4 Lab Science Elec ..... 4 Total Hours: 16 <p><b>Semester III</b></p> ECON 201/ SOCL 151 ..... 3 HUMN 210/ LITR 220 ..... 3 PSYC 142/Elective ....3 Intern Readings I .....3 Lang Level I ..... 4 Total Hours: 16 <p><b>Semester IV</b></p> ECON 202/ SOCL 252 ..... 3 HUMN 211/ LITR 221 ..... 3 Intern Readings II ....3 Culture/Civilization(R/W/S) .....3 Lang Level II ..... 4 Total Hours: 16
HIST 235 World Civilization I .....	3	
HIST 236 World Civilization II .....	3	
PSYC 142 General Psychology <sup>2</sup> -or- Elective .....	3	
Language Level III (201).....	4	
Language Level IV (203) .....	4	
Intermediate Readings I (211) .....	3	
Intermediate Readings II (212).....	3	
Survey of Culture or Civilization (FREN 230, GRMN 230, SPAN 230 or SPAN 240).....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech .....	3	
<i>The Reading, Writing, and Speaking Intensive requirements may be met by FREN/GRMN/SPAN 230 or SPAN 240.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>	<b>29</b>	
ECON 201 Microeconomics -or-		
SOCL 151 Principles of Sociology .....	3	
ECON 202 Macroeconomics -or-		
SOCL 252 Social Problems .....	3	
ENGL 102 English Composition II .....	3	
HUMN 210 Introduction to Humanities I -or-		
LITR 220 Introduction to World Literature I.....	3	
HUMN 211 Introduction to Humanities II -or-		
LITR 221 Introduction to World Literature II .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
Laboratory Science Elective – Common Core List .....	4	
Language Level I.....	4	
Language Level II.....	4	
<i>The Computer Skills requirement is met by Computers Across the Curriculum. _____</i>		
	<b>64</b>	

<sup>1</sup> Students who have studied a modern foreign language for two or more years at the high school or college level should take the language placement test if they wish to continue study in the same language. Advanced placement and credit on the transcript are available for students who score well on the placement test and then take at least one additional course in that language. Students with no previous foreign language study will begin at Level I. Students planning to take a second foreign language as a minor may begin their study of that language their second year. Language Levels I-IV (101, 103, 201 and 203), Intermediate Readings I and II (211 and 212), and Survey of Civilization or Culture (230 or 240) are available in French (FREN), German (GRMN), and Spanish (SPAN).

<sup>2</sup> Students planning to teach should take PSYC 142.

**LIBERAL ARTS – PHILOSOPHY CONCENTRATION 2480**  
**A Two-Year Transfer Program Leading to the A.A. Degree**

This curriculum prepares students planning to become professional philosophers for transfer to four-year institutions and completion of the baccalaureate degree in philosophy. Essentially a Liberal Arts program, it will also help prepare for graduate studies in law, theology, humanities, and other disciplines.

	Credit Hours	Recommended Sequence of Courses (This sequence assumes any necessary developmental requirements have been met.)
<b>Major Program Requirements</b>	<b>27</b>	
ARTT 110 Art Appreciation -or-		
MUSM 118 Music Appreciation .....	3	
HIST 131 Survey of European History I -or-		
HIST 235 World Civilization I .....	3	
HIST 132 Survey of European History II -or-		
HIST 236 World Civilization II .....	3	
HUMN 210 Introduction to Humanities I .....	3	
PHIL 111 Introduction to Philosophy .....	3	
PHIL 212 Introduction to Ethics.....	3	
PHIL 213 Logic .....	3	
PHIL 220 Philosophy of Religion .....	3	
Science Elective .....	3	
<b>Semester I</b>		
ENGL 101 .....	3	
HIST 131/235 .....	3	
PHIL 111 .....	3	
SPCH 143 .....	3	
Foreign Language ....	4	
Total Hours:	16	
<b>Semester II</b>		
ENGL 102 .....	3	
HIST 132/236 .....	3	
MATH 101 .....	3	
PFWL 100 .....	2	
PHIL 212(R/S).....	3	
Foreign Language ....	4	
Total Hours:	18	
<b>Semester III</b>		
HUMN 210 .....	3	
LITR 220 .....	3	
PHIL 220 .....	3	
SOCL 151 .....	3	
Lab Science Elec.....	4	
Total Hours:	16	
<b>Semester IV</b>		
ARTT 110/ MUSM 118 .....	3	
LITR 221 .....	3	
PHIL 213(W) .....	3	
POLS 201/ ECON 100.....	3	
Science Elec.....	3	
Total Hours:	15	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech .....	3	
<i>The Reading and Speaking Intensive requirements may be met by PHIL 212.</i>		
<i>The Writing Intensive requirement may be met by PHIL 213.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>	<b>29</b>	
ENGL 102 English Composition II .....	3	
LITR 220 Introduction to World Literature I.....	3	
LITR 221 Introduction to World Literature II .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
POLS 201 Introduction to Political Science -or-		
ECON 100 Elements of Economics.....	3	
SOCL 151 Principles of Sociology .....	3	
Laboratory Science Elective – Common Core List .....	4	
Intermediate Foreign Languages <sup>1</sup> .....	8	
<i>The Computer Skills requirement is met by Computers Across the Curriculum. —</i>		
	<b>65</b>	

<sup>1</sup> Additional foreign language hours at the elementary level will be awarded either through advanced placement or matriculation at the students' placement level. The A.A. degree requires a minimum of eight credit hours in the same foreign language.

**LIBERAL ARTS – PHOTOJOURNALISM CONCENTRATION 2352**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This curriculum is designed for students interested in pursuing a career in photography. Students will build upon their classroom learning by gaining experience working on the staff of the student newspaper, the *Trailblazer*.

	Credit Hours - A.S.	A.A.				
<b>Major Program Requirements</b>	<b>34</b>	<b>30</b>				
ARTT 220 Photography I.....	3	3	<i>Recommended Sequence of Courses for A.S.</i> (This assumes any necessary developmental requirements have been met.)	<i>Recommended Sequence of Courses for A.A.</i> (This assumes any necessary developmental requirements have been met.)		
ARTT 221 Photography II .....	3	3				
JOUR 110 News Reporting .....	3	3				
JOUR 111 News Reporting Laboratory .....	2	2				
JOUR 115 Editing Laboratory .....	2	2				
JOUR 213 Communications Law .....	3	3				
JOUR 214 Advanced Journalism Laboratory I.....	2	2				
JOUR 216 Mass Communications .....	3	3				
JOUR 217 Advanced Journalism Laboratory II.....	2	2				
PRNT 155 Computer Aided Publishing .....	2	2				
PRNT 155L Computer Aided Publishing Laboratory ...	2	2				
PSYC 142 General Psychology .....	3	3				
Elective(s) .....	4	-				
<b>General Education Requirements</b>						
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>						
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>				
ENGL 101 English Composition I .....	3	3	<i>Recommended Sequence of Courses for A.S.</i> (This assumes any necessary developmental requirements have been met.)	<i>Recommended Sequence of Courses for A.A.</i> (This assumes any necessary developmental requirements have been met.)		
MATH 101 Intermediate Algebra (or higher mathematics).....	3	3				
SPCH 148 Interpersonal Communication .....	3	3				
<i>The Reading, Writing and Speaking Intensive requirements may be met by JOUR 216.</i>						
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>						
<b>Liberal Education Core</b>	<b>20</b>	<b>28</b>				
ENGL 102 English Composition II .....	3	3			<i>Recommended Sequence of Courses for A.S.</i> (This assumes any necessary developmental requirements have been met.)	<i>Recommended Sequence of Courses for A.A.</i> (This assumes any necessary developmental requirements have been met.)
HIST 139 American History I.....	3	3				
HIST 140 American History II .....	3	3				
PFWL 100 Lifetime Fitness/Wellness .....	2	2				
Laboratory Science Elective – Common Core List .....	3	3				
Literature Elective – Common Core List .....	3	3				
Humanities Elective – Broad Core List .....	-	3				
Humanities or Science/Mathematics Elective – Broad Core List .....	3	-				
Foreign Language Electives .....	-	8				
<i>PRNT 155/155L fulfills the Computers Across the Curriculum requirement.</i>						
			<b>Semester I</b>	<b>Semester I</b>		
			ARTT 220 .....3	ARTT 220 .....3		
			ENGL 101 .....3	ENGL 101 .....3		
			JOUR 110 .....3	JOUR 110 .....3		
			JOUR 111 .....2	JOUR 111 .....2		
			PSYC 142 .....3	PSYC 142 .....3		
			Total Hours: 14	Total Hours: 14		
			<b>Semester II</b>	<b>Semester II</b>		
			ENGL 102 .....3	ENGL 102 .....3		
			JOUR 115 .....2	JOUR 115 .....2		
			MATH 101 .....3	MATH 101 .....3		
			PFWL 100 .....2	PFWL 100 .....2		
			PRNT 155 .....2	PRNT 155 .....2		
			PRNT 155L .....2	PRNT 155L .....2		
			SPCH 148 .....3	SPCH 148 .....3		
			Total Hours: 17	Total Hours: 17		
			<b>Semester III</b>	<b>Semester III</b>		
			HIST 139 .....3	HIST 139.....3		
			JOUR 213 .....3	JOUR 213 .....3		
			JOUR 214 .....2	JOUR 214 .....2		
			Hum/Sci/Math Elective.....3	Foreign Lang.....4		
			Literature Elec.....3	Humanities Elec.....3		
			Total Hours: 14	Total Hours: 18		
			<b>Semester IV</b>	<b>Semester IV</b>		
			ARTT 221 .....3	ARTT 221 .....3		
			HIST 140 .....3	HIST 140.....3		
			JOUR 216(R/W/S) ...3	JOUR 216(R/W/S) ...3		
			JOUR 217 .....2	JOUR 217 .....2		
			Lab Science Elec.....3	Foreign Lang.....4		
			Elective(s).....4	Lab Sci Elec.....3		
			Total Hours: 18	Total Hours: 18		

**LIBERAL ARTS – POLITICAL SCIENCE CONCENTRATION 1456**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This curriculum allows students to begin a concentration in political science that will lead eventually to a major in that field. Political science provides an excellent background for pre-law, public service, public relations, personnel work, investigation, or teaching.

	Credit Hours - A.S.	A.A.	<i>Recommended Sequence of Courses for A.S.</i>	<i>Recommended Sequence of Courses for A.A.</i>		
<b>Major Program Requirements</b>	<b>33</b>	<b>25</b>				
ERTH 207 World Geography .....	3	3				
HIST 139 American History I -and/or-			(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)		
HIST 235 World Civilization I <sup>1</sup> .....	6	3				
HIST 140 American History II -and/or-						
HIST 236 World Civilization II <sup>1</sup> .....	6	3				
POLS 111 American National Government -and/or-						
POLS 112 State and Local Government <sup>2</sup> .....	6	3				
POLS 201 Introduction to Political Science .....	3	3				
POLS 210 Personal Law .....	3	3				
POLS 211 Introduction to World Politics <sup>3</sup> .....	3	3				
POLS 220 Public Administration .....	3	3				
Elective .....	-	1				
<b>General Education Requirements</b>						
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>						
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>				
ENGL 101 English Composition I .....	3	3				
MATH 101 Intermediate Algebra -or-			Total Hours: 17	Total Hours: 18		
MATH 102 College Algebra .....	3	3				
SPCH 143 Speech .....	3	3				
<i>The Reading and Writing Intensive requirements may be met by POLS 201 or 211.</i>						
<i>The Speaking Intensive requirement may be met by POLS 211.</i>						
<i>The Mathematics Intensive requirement may be met by MATH 102 or a subsequent mathematics course or by passing a mathematics assessment examination.</i>						
<b>Liberal Education Core</b>	<b>20</b>	<b>28</b>				
ECON 201 Microeconomics .....	3	3				
ECON 202 Macroeconomics .....	3	3				
ENGL 102 English Composition II .....	3	3				
PFWL 100 Lifetime Fitness/Wellness .....	2	2				
Laboratory Science Elective – Common Core List .....	3	3				
Humanities Elective – Common Core List .....	3	3				
Humanities Elective – Broad Core List .....	-	3				
Humanities or Science/Mathematics Elective – Broad Core List .....	3	-				
Foreign Language Electives .....	-	8				
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>						
<b>62 62</b>						
			<b>Semester I</b>	<b>Semester I</b>		
			ENGL 101 .....3	ENGL 101 .....3		
			HIST 139 .....3	SPCH 143 .....3		
			POLS 111 .....3	Foreign Lang.....4		
			Hum/Sci/Math	Humanities Elec.....3		
			Elective ..... 3	Elective ..... 1		
			Total Hours: 12	Total Hours: 14		
			<b>Semester II</b>	<b>Semester II</b>		
			ENGL 102 .....3	ENGL 102 .....3		
			HIST 140 .....3	HIST 139/235 .....3		
			MATH 101/102(M) 3	MATH 101/102(M) 3		
			PFWL 100 .....2	PFWL 100 .....2		
			SPCH 143 .....3	Foreign Lang.....4		
			Lab Science Elec... 3	Lab Science Elec... 3		
			Total Hours: 17	Total Hours: 18		
			<b>Semester III</b>	<b>Semester III</b>		
			ECON 201 .....3	ECON 201 .....3		
			ERTH 207 .....3	ERTH 207 .....3		
			HIST 235 .....3	POLS 201(R/W) .....3		
			POLS 201(R/W) .....3	POLS 210 .....3		
			POLS 210 .....3	POLS 220 ..... 3		
			POLS 220 ..... 3	Total Hours: 15		
			Total Hours: 18			
			<b>Semester IV</b>	<b>Semester IV</b>		
			ECON 202 .....3	ECON 202 .....3		
			HIST 236 .....3	HIST 140/236 .....3		
			POLS 112 .....3	POLS 111/112 .....3		
			POLS 211(R/W/S) ...3	POLS 211(R/W/S) ...3		
			Humanities Elec ... 3	Humanities Elec.....3		
			Total Hours: 15	Total Hours: 15		

<sup>1</sup> A.A. students should check transfer institution for preference of HIST 139 and 140 or HIST 235 and 236. A.S. students must complete HIST 139, 140, 235 and 236.

<sup>2</sup> A.S. students must complete both POLS 111 and 112.

<sup>3</sup> Completion of POLS 211 Introduction to World Politics with a grade of C or better is a requirement for graduation for all Liberal Arts/Political Science majors.

**LIBERAL ARTS – PRE-LAW CONCENTRATION 1400**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

There is no single course of study for pre-law majors. Law schools generally desire superior students who have completed a liberal arts program, but a large number of law students come from schools of business. Political science provides a good major, and business, history, English, mathematics, psychology, philosophy and economics are good minors. The program below is essentially a liberal arts curriculum.

	Credit Hours - A.S.	A.A.				
<b>Major Program Requirements</b>	<b>33</b>	<b>27</b>				
HIST 139 American History I.....	3	3	<i>Recommended Sequence of Courses for A.S.</i> (This assumes any necessary developmental requirements have been met.)	<i>Recommended Sequence of Courses for A.A.</i> (This assumes any necessary developmental requirements have been met.)		
HIST 140 American History II.....	3	3				
HIST 235 World Civilization I.....	3	3				
HIST 236 World Civilization II.....	3	3				
POLS 111 American National Government.....	3	3				
POLS 201 Introduction to Political Science.....	3	3				
POLS 210 Personal Law.....	3	3				
POLS 211 Introduction to World Politics <sup>1</sup> .....	3	3				
PSYC 142 General Psychology.....	3	3				
Electives.....	6	-				
<b>General Education Requirements</b>						
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>						
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>				
ENGL 101 English Composition I.....	3	3	<i>Recommended Sequence of Courses for A.S.</i> (This assumes any necessary developmental requirements have been met.)	<i>Recommended Sequence of Courses for A.A.</i> (This assumes any necessary developmental requirements have been met.)		
MATH 101 Intermediate Algebra -or-						
MATH 102 College Algebra.....	3	3				
SPCH 143 Speech.....	3	3				
<i>The Reading and Writing Intensive requirements may be met by POLS 201 or 211.</i>						
<i>The Speaking Intensive requirement may be met by POLS 211.</i>						
<i>The Mathematics Intensive requirement may be met by MATH 102 or a subsequent mathematics course or by passing a mathematics assessment examination.</i>						
<b>Liberal Education Core</b>	<b>20</b>	<b>28</b>				
ECON 201 Microeconomics.....	3	3			<i>Recommended Sequence of Courses for A.S.</i> (This assumes any necessary developmental requirements have been met.)	<i>Recommended Sequence of Courses for A.A.</i> (This assumes any necessary developmental requirements have been met.)
ECON 202 Macroeconomics.....	3	3				
ENGL 102 English Composition II.....	3	3				
PFWL 100 Lifetime Fitness/Wellness.....	2	2				
Laboratory Science Elective – Common Core List.....	3	3				
Literature Elective – Common Core List.....	3	3				
Literature Elective – Broad Core List.....	3	3				
Foreign Language Electives.....	-	8				
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>						
	<b>62</b>	<b>64</b>				

<sup>1</sup> Completion of POLS 211 Introduction to World Politics with a grade of C or better is a requirement for graduation for all Pre-Law majors.

**LIBERAL ARTS – PRINT MEDIA ADVERTISING CONCENTRATION 2351**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed for students who want to learn the business and design elements of advertising, while working in a newspaper setting. Students will sell and design ads for VU's award-winning student newspaper, *Trailblazer*, and will interact with editorial and news staff to get a "real life" view of the operations of a print media publication. Graduates may seek employment or continue their education at a four-year institution.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>36</b>	
ARTT 140 Computer Art and Design .....	3	
JOUR 101 Print Media Advertising Lecture .....	3	
JOUR 102 Print Advertising Laboratory .....	1	
JOUR 110 News Reporting .....	3	
JOUR 111 News Reporting Laboratory .....	2	
JOUR 112 Editing.....	3	
JOUR 203 Advanced Print Advertising Laboratory I.....	1	
JOUR 204 Advanced Print Advertising Laboratory II.....	1	
JOUR 213 Communications Law .....	3	
JOUR 216 Mass Communications .....	3	
MGMT 255 Principles of Salesmanship .....	3	
MGMT 280 Introduction to Marketing .....	3	
MKTG 155 Consumer Behavior .....	3	
PRNT 155 Computer Aided Publishing .....	2	
PRNT 155L Computer Aided Publishing Laboratory .....	2	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by JOUR 216.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>	<b>20</b>	
ENGL 102 English Composition II .....	3	
HIST 139 American History I .....	3	
HIST 140 American History II .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
Laboratory Science Elective – Common Core List .....	3	
Literature Elective – Common Core List .....	3	
Humanities or Science/Mathematics Elective – Broad Core List.....	3	
<i>Computer Skills are enhanced by ARTT 140.</i>		
	<b>65</b>	

<b>Recommended Sequence of Courses</b>	
<i>(This sequence assumes any necessary developmental requirements have been met.)</i>	
<b>Semester I</b>	
ENGL 101 .....	3
JOUR 101 .....	3
JOUR 110 .....	3
JOUR 111 .....	2
MKTG 155 .....	3
PRNT 155 .....	2
PRNT 155L.....	2
Total Hours: 18	
<b>Semester II</b>	
ARTT 140 .....	3
JOUR 102 .....	1
JOUR 112 .....	3
MATH 101 .....	3
MGMT 255 .....	3
SPCH 143.....	3
Total Hours: 16	
<b>Semester III</b>	
ENGL 102 .....	3
HIST 139 .....	3
JOUR 203 .....	1
JOUR 213 .....	3
Hum/Sci/Math Elective.....	3
Total Hours: 13	
<b>Semester IV</b>	
HIST 140 .....	3
JOUR 204 .....	1
JOUR 216(R/W/S) .....	3
MGMT 280 .....	3
PFWL 100 .....	2
Lab Science Elec.....	3
Literature Elec.....	3
Total Hours: 18	

**LIBERAL ARTS – PUBLIC ADMINISTRATION CONCENTRATION 1457**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This curriculum is designed to provide students with the first two years of an academic program specializing in preparing students for professional career positions in local, state, or national government and/or governmental agencies. The program is designed to transfer to Ball State University, Indiana State University, and Indiana University.

	Credit Hours - A.S.	A.A.																																																										
<b>Major Program Requirements</b>	<b>33</b>	<b>27</b>																																																										
ACCT 201 Principles of Accounting I .....	3	3	<p align="center"><i>Recommended Sequence of Courses for A.S.</i></p> <p>(This assumes any necessary developmental requirements have been met.)</p> <table border="1"> <thead> <tr> <th align="center">Semester I</th> <th align="center">Semester II</th> <th align="center">Semester III</th> <th align="center">Semester IV</th> </tr> </thead> <tbody> <tr> <td>ENGL 101 .....3</td> <td>ENGL 102 .....3</td> <td>ACCT 201 .....3</td> <td>ACCT 202 .....3</td> </tr> <tr> <td>HIST 139 .....3</td> <td>HIST 140 .....3</td> <td>ECON 201 .....3</td> <td>ECON 202 .....3</td> </tr> <tr> <td>POLS 111 .....3</td> <td>MATH 101 .....3</td> <td>ERTH 207 .....3</td> <td>PFWL 100 .....2</td> </tr> <tr> <td>POLS 112 .....3</td> <td>POLS 210 .....3</td> <td>MGMT 250 .....3</td> <td>POLS 211(R/W/S) ...3</td> </tr> <tr> <td>SPCH 143 .....3</td> <td>Lab Science Elec... 3</td> <td>POLS 201(R/W) ...3</td> <td>POLS 220 .....3</td> </tr> <tr> <td align="right">Total Hours: 15</td> <td align="right">Total Hours: 15</td> <td align="right">Total Hours: 15</td> <td align="right">Total Hours: 17</td> </tr> </tbody> </table>	Semester I	Semester II	Semester III	Semester IV	ENGL 101 .....3	ENGL 102 .....3	ACCT 201 .....3	ACCT 202 .....3	HIST 139 .....3	HIST 140 .....3	ECON 201 .....3	ECON 202 .....3	POLS 111 .....3	MATH 101 .....3	ERTH 207 .....3	PFWL 100 .....2	POLS 112 .....3	POLS 210 .....3	MGMT 250 .....3	POLS 211(R/W/S) ...3	SPCH 143 .....3	Lab Science Elec... 3	POLS 201(R/W) ...3	POLS 220 .....3	Total Hours: 15	Total Hours: 15	Total Hours: 15	Total Hours: 17	<p align="center"><i>Recommended Sequence of Courses for A.A.</i></p> <p>(This assumes any necessary developmental requirements have been met.)</p> <table border="1"> <thead> <tr> <th align="center">Semester I</th> <th align="center">Semester II</th> <th align="center">Semester III</th> <th align="center">Semester IV</th> </tr> </thead> <tbody> <tr> <td>ENGL 101 .....3</td> <td>ENGL 102 .....3</td> <td>ACCT 201 .....3</td> <td>ACCT 202 .....3</td> </tr> <tr> <td>HIST 139 .....3</td> <td>HIST 140 .....3</td> <td>ECON 201 .....3</td> <td>ECON 202 .....3</td> </tr> <tr> <td>POLS 111/112 .....3</td> <td>MATH 101 .....3</td> <td>POLS 201(R/W) .....3</td> <td>PFWL 100 .....2</td> </tr> <tr> <td>SPCH 143 .....3</td> <td>Foreign Lang .....4</td> <td>POLS 210 .....3</td> <td>POLS 211(R/W/S) ...3</td> </tr> <tr> <td>Foreign Lang .....4</td> <td>Lab Science Elec... 3</td> <td>Humanities Elec... 3</td> <td>POLS 220 .....3</td> </tr> <tr> <td align="right">Total Hours: 16</td> <td align="right">Total Hours: 16</td> <td align="right">Total Hours: 15</td> <td align="right">Total Hours: 17</td> </tr> </tbody> </table>	Semester I	Semester II	Semester III	Semester IV	ENGL 101 .....3	ENGL 102 .....3	ACCT 201 .....3	ACCT 202 .....3	HIST 139 .....3	HIST 140 .....3	ECON 201 .....3	ECON 202 .....3	POLS 111/112 .....3	MATH 101 .....3	POLS 201(R/W) .....3	PFWL 100 .....2	SPCH 143 .....3	Foreign Lang .....4	POLS 210 .....3	POLS 211(R/W/S) ...3	Foreign Lang .....4	Lab Science Elec... 3	Humanities Elec... 3	POLS 220 .....3	Total Hours: 16	Total Hours: 16	Total Hours: 15	Total Hours: 17
Semester I	Semester II	Semester III		Semester IV																																																								
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HIST 139 .....3	HIST 140 .....3	ECON 201 .....3		ECON 202 .....3																																																								
POLS 111/112 .....3	MATH 101 .....3	POLS 201(R/W) .....3		PFWL 100 .....2																																																								
SPCH 143 .....3	Foreign Lang .....4	POLS 210 .....3		POLS 211(R/W/S) ...3																																																								
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ACCT 202 Principles of Accounting II .....	3	3																																																										
HIST 139 American History I.....	3	3																																																										
HIST 140 American History II .....	3	3																																																										
MGMT 250 Introduction to Management.....	3	-																																																										
POLS 111 American National Government -and/or-																																																												
POLS 112 State and Local Government <sup>1</sup> .....	6	3																																																										
POLS 201 Introduction to Political Science .....	3	3																																																										
POLS 210 Personal Law.....	3	3																																																										
POLS 211 Introduction to World Politics.....	3	3																																																										
POLS 220 Public Administration .....	3	3																																																										
<b>General Education Requirements</b>																																																												
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>																																																												
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>																																																										
ENGL 101 English Composition I .....	3	3																																																										
MATH 101 Intermediate Algebra (or higher mathematics).....	3	3																																																										
SPCH 143 Speech .....	3	3																																																										
<i>The Reading Intensive requirement may be met by POLS 201 or 211 or ECON 201.</i>																																																												
<i>The Writing Intensive requirement may be met by POLS 201 or 211.</i>																																																												
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<b>Liberal Education Core</b>	<b>20</b>	<b>28</b>																																																										
ECON 201 Microeconomics.....	3	3																																																										
ECON 202 Macroeconomics .....	3	3																																																										
ENGL 102 English Composition II .....	3	3																																																										
ERTH 207 World Geography .....	3	-																																																										
PFWL 100 Lifetime Fitness/Wellness .....	2	2																																																										
Laboratory Science Elective – Common Core List .....	3	3																																																										
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Foreign Language Electives .....	-	8																																																										
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>																																																												

<sup>1</sup> A.S. students must complete both POLS 111 and 112.



**LIBERAL ARTS – PUBLIC RELATIONS CONCENTRATION 2500**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum prepares students to transfer to a four-year institution and culminating in a baccalaureate degree in the area of public relations or a communication systems specialist.

	<b>Credit Hours</b>
<b>Major Program Requirements</b>	<b>32</b>
ARTT 111 Two-Dimensional Design .....	3
ENGL 109 Broadcast Writing .....	3
ENGL 202 Creative Writing .....	3
ENGL 250 English Grammar .....	3
JOUR 110 News Reporting .....	3
JOUR 111 News Reporting Laboratory .....	2
JOUR 213 Communications Law -or-	
JOUR 216 Mass Communications .....	3
MGMT 100 Introduction to Business.....	3
MGMT 250 Introduction to Management.....	3
PSYC 142 General Psychology .....	3
SPCH 160 Introduction to Public Relations .....	3

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition I .....	3
MATH 101 Intermediate Algebra .....	3
SPCH 143 Speech .....	3

*The Reading, Writing and Speaking Intensive requirements may be met by SPCH 160.*

*The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>	<b>21-22</b>
ARTT 220 Photography I.....	3
ECON 201 Microeconomics .....	3
ECON 202 Macroeconomics .....	3
ENGL 102 English Composition II .....	3
PFWL 100 Lifetime Fitness/Wellness .....	2
Laboratory Science Elective – Common Core List .....	4
Literature Elective – Common Core List -or-	
Foreign Language Electives .....	3-4

*The Computer Skills requirement is met by Computers Across the Curriculum. \_*

**62-63**

<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
ECON 201 .....	3
ENGL 101 .....	3
MATH 101 .....	3
MGMT 100 .....	3
SPCH 143 .....	3
Total Hours: 15	
<b>Semester II</b>	
ARTT 111 .....	3
ECON 202 .....	3
ENGL 102 .....	3
ENGL 250 .....	3
SPCH 160(R/W/S).....	3
Total Hours: 15	
<b>Semester III</b>	
JOUR 110 .....	3
JOUR 111 .....	2
JOUR 213/216.....	3
Lab Science Elec.....	4
Literature/ For Lang Elec.....	3-4
Total Hours: 15-16	
<b>Semester IV</b>	
ARTT 220 .....	3
ENGL 109 .....	3
ENGL 202 .....	3
MGMT 250 .....	3
PFWL 100 .....	2
PSYC 142.....	3
Total Hours: 17	



**LOSS PREVENTION AND SAFETY 7800**  
**A Two-Year Program Leading to the A.A.S. Degree**

This program provides a broad base of instruction in the field of security and enhances students' opportunities for employment within the field of loss prevention for supervisory and management positions.

	<b>Credit Hours</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
<b>Major Program Requirements</b>		
	<b>39-43</b>	
COMP 110 Introduction to Computer Concepts .....	3	
CNET 155 Computer Forensics: Cyber Investigations .....	3	
LAW 150 Introduction to Criminology .....	3	
LAW 160 Criminal Investigation .....	3	
LOSS 115 Principles of Loss Prevention.....	3	
LOSS 155 Private Security Law .....	3	
LOSS 170 Security I .....	3	
LOSS 205 Safety Issues in Loss Prevention.....	3	
LOSS 220 Risk Management .....	3	
LOSS 225 Security Management .....	3	
LOSS 240 Security II.....	3	
LOSS 270 Internship in Security <sup>1</sup> .....	0-4	
Business Elective .....	3	
Accounting Elective .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>		
	<b>9</b>	
ENGL 101 English Composition I .....	3	
100-level or Higher Mathematics Course .....	3	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by LOSS 225. The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>		
	<b>14</b>	
ENGL 102 English Composition II .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PSYC 142 General Psychology .....	3	
Science Elective--Common Core List .....	3	
Social Science Elective – Core List .....	3	
<i>Computer Skills are enhanced by COMP 110. _</i>		
	<b>62-66</b>	
		<b>Semester I</b>
		ENGL 101 .....3
		LOSS 115 .....3
		LOSS 155 .....3
		PSYC 142 .....3
		Math Elective .....3
		Total Hours: 15
		<b>Semester II</b>
		ENGL 102 .....3
		LAW 160 .....3
		LOSS 170 .....3
		SPCH 143/148.....3
		Business Elec .....3
		Total Hours: 15
		<b>Semester III</b>
		COMP 110 .....3
		LOSS 205 .....3
		LOSS 220 .....3
		PFWL 100 .....2
		Accounting Elec.....3
		Soc Sci Elective .....3
		Total Hours: 17
		<b>Semester IV</b>
		CNET 155 .....3
		LAW 150 .....3
		LOSS 225(R/W/S) .....3
		LOSS 240 .....3
		Science Elective .....3
		Total Hours: 15

<sup>1</sup> See course description for details regarding this optional internship.

**MACHINE TRADES TECHNOLOGY – ADVANCED MANUFACTURING 8422**  
**A One-Year Program in Advanced Manufacturing Leading to an Additional A.A.S. or A.S. Degree**

This is an intensive, one-year addition to the Machine Trades Program to be offered ONLY to those students who have completed all major course requirements of either the 8420 or 8421 programs. Students enrolled in Advanced Manufacturing will be instructed in the latest technologies surrounding computerized machining, the interrelationship of machining centers, CNC lathes, wire and ram EDM and CMM. All General Education requirements will have been met by the previously completed first degree.

	<b>Credit Hours</b>																									
<b>Major Program Requirements</b>	<b>34</b>																									
DRAF 370 Pro/Engineer for Advanced Machinists .....	3	<table border="1"> <tr> <td align="center" colspan="2"><i>Recommended Sequence of Courses</i></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>MTTD 145 .....</td> <td align="right">3</td> </tr> <tr> <td>MTTD 282 .....</td> <td align="right">2</td> </tr> <tr> <td>MTTD 380 .....</td> <td align="right"><u>12</u></td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>DRAF 370 .....</td> <td align="right">3</td> </tr> <tr> <td>MTTD 287 .....</td> <td align="right">2</td> </tr> <tr> <td>MTTD 385 .....</td> <td align="right"><u>12</u></td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> </table>	<i>Recommended Sequence of Courses</i>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		MTTD 145 .....	3	MTTD 282 .....	2	MTTD 380 .....	<u>12</u>	Total Hours: 17		<b>Semester II</b>		DRAF 370 .....	3	MTTD 287 .....	2	MTTD 385 .....	<u>12</u>	Total Hours: 17	
<i>Recommended Sequence of Courses</i>																										
(This sequence assumes any necessary developmental requirements have been met.)																										
<b>Semester I</b>																										
MTTD 145 .....	3																									
MTTD 282 .....	2																									
MTTD 380 .....	<u>12</u>																									
Total Hours: 17																										
<b>Semester II</b>																										
DRAF 370 .....	3																									
MTTD 287 .....	2																									
MTTD 385 .....	<u>12</u>																									
Total Hours: 17																										
MTTD 145 Quality Assurance .....	3																									
MTTD 282 Cutting Tool Techniques and Geometry .....	2																									
MTTD 287 HAAS Machine Tool Maintenance .....	2																									
MTTD 380 Advanced Manufacturing CAD/CAM/CNC I.....	12																									
MTTD 385 Advanced Manufacturing CAD/CAM/CNC II .....	12																									

**MACHINE TRADES TECHNOLOGY (TOOL AND DIE) 8420**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum prepares students for gainful employment in general machine shops, tool and die shops and large industrial tool rooms. Major emphasis is placed on the construction of metal stamping dies. All students will be required to provide their own set of machinist tools. *Students intending to complete the Purdue University Industrial Technology B.S. Degree through the VU partnership program are encouraged to consult with their advisor regarding specific course requirements not listed in this catalog.*

	Credit Hours – A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>	<b>57</b>	<b>57</b>		
DRAF 101 Introduction to Drafting .....	3	3	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
MTIM 165 Injection Mold Tooling I .....	4	4		
MTTD 100 General Machines <sup>1</sup> .....	9	9		
MTTD 105 Metallurgy and Industrial Blueprint Reading .....	2	2		
MTTD 115 CNC Programming and Operations I .....	4	4		
MTTD 135 Manufacturing Processes .....	2	2		
MTTD 135L Manufacturing Processes Laboratory .....	1	1		
MTTD 155 Tool and Die I .....	4	4		
MTTD 200 Tool and Die II .....	8	8		
MTTD 205 Welding and Fabrication .....	2	2		
MTTD 225 CNC Programming and Operations II .....	4	4		
MTTD 225L CNC Programming and Operations Laboratory II .....	1	1		
MTTD 235 CNC Programming and Operations III .....	4	4		
MTTD 235L CNC Programming and Operations Laboratory III .....	1	1		
MTTD 255 Tool and Die III .....	8	8		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>	<b>8-9</b>	<b>9</b>		
ENGL 101 English Composition I .....	3	3		
MATT 106 Applied Mathematics II -or-				
MATH 101 Intermediate Algebra <sup>2</sup> .....	3	3		
SPCH 140 Introduction to Speech -or-				
SPCH 143 Speech -or-				
SPCH 148 Interpersonal Communication <sup>3</sup> .....	2-3	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by MTTD 255.</i>				
<i>The Mathematics Intensive requirement may be met by MATT 107 or MATH 104 for A.A.S. or by MATH 104 for A.S. or by passing a mathematics assessment examination.</i>				
			<b>Semester I</b>	<b>Semester I</b>
			DRAF 101 .....3	DRAF 101 .....3
			ENGL 101 .....3	ENGL 101 .....3
			MTTD 100 .....9	MTTD 100 .....9
			MTTD 105 .....2	MTTD 105 .....2
			MTTD 135 .....2	MTTD 135 .....2
			MTTD 135L .....1	MTTD 135L .....1
			Total Hours: 20	Total Hours: 20
			<b>Semester II</b>	<b>Semester II</b>
			MATT 106/ MATH 101 .....3	ENGL 102 .....3
			MTIM 165 .....4	MATH 101 .....3
			MTTD 115 .....4	MTIM 165 .....4
			MTTD 155 .....4	MTTD 115 .....4
			PHYT 100/ PSCI 101 .....3	MTTD 155 .....4
			SPCH 140/143/ 148 ..... 2-3	Soc Sci Elective .....3
			Total Hours: 20-21	Total Hours: 21
			<b>Semester III</b>	<b>Semester III</b>
			MTTD 200 .....8	MTTD 200 .....8
			MTTD 205 .....2	MTTD 205 .....2
			MTTD 225 .....4	MTTD 225 .....4
			MTTD 225L .....1	MTTD 225L .....1
			PFWL 100 .....2	PFWL 100 .....2
			Hum/Math/Sci/ Soc Sci Elec ..... 3	SPCH 143/148 .....3
			Total Hours: 20	Hum/Math/Sci Elective .....3
				Total Hours: 23

(Continued on the following page)

<sup>1</sup> The MTTD 100 requirement may be satisfied by completion of MTTD 140, 141 and 142 Basic Machining I, II, and III.

<sup>2</sup> A.S. students must select MATH 101.

<sup>3</sup> A.S. students must select SPCH 143 or 148.

<b>Liberal Education Core</b>		<b>14</b>	<b>20-21</b>
ENGL 102	English Composition II .....	-	3
ENGL 108	Technical Writing .....	3	-
PFWL 100	Lifetime Fitness/Wellness .....	2	2
PHYT 101	Technical Physics -or-		
PSCI 101	Physical Science .....	-	3-4
PHYT 100	Physics for Technicians -or-		
PSCI 101	Physical Science .....	3	-
	Humanities Elective – Common Core List .....	-	3
	Social Science Elective(s) – Core List.....	3	6
	One course from one of the following areas: Humanities, Mathematics or Science – Broad Core List -or- Social Science – Core List.....	3	-
	Humanities or Science/Mathematics Elective – Broad Core List.....	-	3

Computer Skills are enhanced by MTTD 115, 225  
and 235.

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Semester IV	Semester IV		
ENGL 108 .....	3	MTTD 235.....	4
MTTD 235 .....	4	MTTD 235L .....	1
MTTD 235L.....	1	MTTD 255(R/W/S) ..	8
MTTD 255(R/W/S) ..	8	PHYT 101/	
Soc Sci Elective ....	<u>3</u>	PSCI 101 .....	3-4
Total Hours: 19		Humanities Elec .....	3
		Soc Sci Elec.....	<u>3</u>
		Total Hours: 22-23	

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**MACHINE TRADES TECHNOLOGY  
INJECTION MOLD TOOLING CONCENTRATION 8421  
A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum prepares students for gainful employment in general machine shops, mold shops and large industrial tool rooms. Major emphasis is placed on the construction of injection molds for the plastics industry. All students will be required to provide their own set of machinist tools. *Students intending to complete the Purdue University Industrial Technology B.S. Degree through the VU partnership program are encouraged to consult with their advisor regarding specific course requirements not listed in this catalog.*

		Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>		<b>57</b>	<b>57</b>		
DRAF 101	Introduction to Drafting .....	3	3		
MTIM 165	Injection Mold Tooling I .....	4	4		
MTIM 210	Injection Mold Tooling II .....	8	8		
MTIM 265	Injection Mold Tooling III .....	8	8		
MTTD 100	General Machines <sup>1</sup> .....	9	9		
MTTD 105	Metallurgy and Industrial Blueprint Reading .....	2	2		
MTTD 115	CNC Programming and Operation I .....	4	4		
MTTD 135	Manufacturing Processes .....	2	2		
MTTD 135L	Manufacturing Processes Laboratory .....	1	1		
MTTD 155	Tool and Die I .....	4	4		
MTTD 205	Welding and Fabrication .....	2	2		
MTTD 225	CNC Programming and Operations II .....	4	4		
MTTD 225L	CNC Programming and Operations Laboratory II .....	1	1		
MTTD 235	CNC Programming and Operations III .....	4	4		
MTTD 235L	CNC Programming and Operations Laboratory III .....	1	1		
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>					
<b>Basic Skills Core</b>		<b>8-9</b>	<b>9</b>		
ENGL 101	English Composition I .....	3	3		
MATT 106	Applied Mathematics II -or-				
MATH 101	Intermediate Algebra <sup>2</sup> .....	3	3		
SPCH 140	Introduction to Speech -or-				
SPCH 143	Speech -or-				
SPCH 148	Interpersonal Communication <sup>3</sup> .....	2-3	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by MTIM 265.</i>					
<i>The Mathematics Intensive requirement may be met by MATT 107 or MATH 104 for A.A.S. or by MATH 104 for A.S. or by passing a mathematics assessment examination.</i>					
				<b>Semester I</b>	<b>Semester I</b>
				DRAF 101 .....	DRAF 101 .....
				ENGL 101 .....	ENGL 101 .....
				MTTD 100 .....	MTTD 100 .....
				MTTD 105 .....	MTTD 105 .....
				MTTD 135 .....	MTTD 135 .....
				MTTD 135L .....	MTTD 135L .....
				Total Hours: 20	Total Hours: 20
				<b>Semester II</b>	<b>Semester II</b>
				MATT 106/ MATH 101 .....	ENGL 102 .....
				MTIM 165 .....	MATH 101 .....
				MTTD 115 .....	MTIM 165 .....
				MTTD 155 .....	MTTD 115 .....
				PHYT 100/ PSCI 101 .....	MTTD 155 .....
				SPCH 140/143/ 148 .....	Soc Sci Elective .....
				Total Hours: 20-21	Total Hours: 21
				<b>Semester III</b>	<b>Semester III</b>
				MTIM 210 .....	MTIM 210 .....
				MTTD 205 .....	MTTD 205 .....
				MTTD 225 .....	MTTD 225 .....
				MTTD 225L .....	MTTD 225L .....
				PFWL 100 .....	PFWL 100 .....
				Hum/Math/Sci/ Soc Sci Elective ..	SPCH 143/148 .....
				Total Hours: 20	Hum/Math/Sci Elective .....
					Total Hours: 23

*(Continued on the following page)*

<sup>1</sup> The MTTD 100 requirement may be satisfied by completion of MTTD 140, 141 and 142 Basic Machining I, II, and III.

<sup>2</sup> A.S. students must select MATH 101.

<sup>3</sup> A.S. students must select SPCH 143 or 148.

<b>Liberal Education Core</b>	<b>14</b>	<b>20-21</b>
ENGL 102 English Composition II .....	-	3
ENGL 108 Technical Writing .....	3	-
PFWL 100 Lifetime Fitness/Wellness .....	2	2
PHYT 101 Technical Physics -or-		
PSCI 101 Physical Science .....	-	3-4
PHYT 100 Physics for Technicians -or-		
PSCI 101 Physical Science .....	3	-
Humanities Elective – Common Core List .....	-	3
Social Science Elective(s) – Core List.....	3	6
One course from one of the following areas: Humanities, Mathematics or Science – Broad Core List -or- Social Science – Core List.....	3	-
Humanities or Science/Mathematics Elective – Broad Core List.....	-	3
<i>Computer Skills are enhanced by MTTD 115, 225 and 235.</i>		
<b>79</b>	<b>-80</b>	<b>86-87</b>

Semester IV	Semester IV
ENGL 108(W) .....3	MTIM 265(R/W/S) ..8
MTIM 265(R/W/S) .. 8	MTTD 235.....4
MTTD 235 .....4	MTTD 235L.....1
MTTD 235L.....1	PHYT 101/
Soc Sci Elective .... 3	PSCI 100 .....3-4
Total Hours: 19	Humanities Elec .....3
	Soc Sci Elective.....3
	Total Hours: 22-23

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**MANAGEMENT TRAINING CERTIFICATE 5520**  
**A Certificate of Program Completion**

Persons desiring entry-level managerial skills without the benefit of previous formal management training can improve their contribution and skills especially in the areas of communication, human relations, organizational effectiveness and business operations by completing this program.

	<b>Credit Hours</b>
COMP 110 Introduction to Computer Concepts .....	3
ENGL 101 English Composition I .....	3
MGMT 100 Introduction to Business.....	3
MGMT 257 Supervision .....	3
SPCH 148 Interpersonal Communication .....	3

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<b>Recommended Sequence of Courses</b>
(This sequence assumes any necessary developmental requirements have been met.)
<b>Semester I</b>
COMP 110 .....3
ENGL 101 .....3
MGMT 100 .....3
MGMT 257 .....3
SPCH 148.....3
Total Hours: 15

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011 and MATH 011, MATT 103, 105 or 109.



**MANUFACTURED HOUSING COMPONENT ASSEMBLIES 8415**  
**A One-Year Program Leading to a Certificate of Program Completion**

This certificate is designed to provide the student with the skills required in the assembly of walls, roof and ceiling units, and cabinets in the shelling process in the manufactured housing industry. *Offered off-campus only.*

	<b>Credit Hours</b>
ENGL 101 English Composition I .....	3
MATT 105 Applied Mathematics I .....	4
MHCT 116 Prefabricated Wall Assembly .....	3
MHCT 117 Prefabricated Roof and Ceiling Assembly .....	3
MHCT 118 Prefabricated Cabinet Assembly .....	3
MHCT 203 Manufactured Housing and OSHA Regulations .....	3
	<hr/>
	<b>19</b>

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011.

**MANUFACTURED HOUSING CORE OBJECTIVES 8416**  
**A One-Year Program Leading to a Certificate of Program Completion**

This certificate is intended to promote the institutional philosophy of the manufactured housing industry. Emphasis will be placed upon Housing and Urban Development Guidelines, Part 32 80. *Offered off-campus only.*

	<b>Credit Hours</b>
ENGL 101 English Composition I .....	3
MATT 105 Applied Mathematics I .....	4
MHCT 201 Manufactured Housing Improvement Processes .....	3
MHCT 202 Manufactured Housing Quality Standards .....	3
MHCT 203 Manufactured Housing and OSHA Regulations .....	3
PHIL 212 Introduction to Ethics.....	3
PRDM 215 Quality Management .....	3
SOCL 210 Organizational Sociology.....	3
SPCH 143 Speech .....	3
	<hr/>
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**MANUFACTURED HOUSING ELECTRICAL SYSTEMS 8413**  
**A One-Year Program Leading to a Certificate of Program Completion**

This certificate is designed to provide the student with the knowledge and skills required to carry out electrical systems installation and testing in conjunction with the National Electrical Code in the manufactured housing industry. *Offered off-campus only.*

	<b>Credit Hours</b>
ENGL 101 English Composition I .....	3
MATT 105 Applied Mathematics I .....	4
MHCT 109 Rough Electrical Systems .....	3
MHCT 110 Finish Electrical Systems .....	3
MHCT 111 Electrical Systems Testing .....	3
MHCT 203 Manufactured Housing and OSHA Regulations .....	3
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**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011.

**MANUFACTURED HOUSING FINISH CARPENTRY 8412**  
**A One-Year Program Leading to a Certificate of Program Completion**

This certificate is designed to provide the student with the fine, high-level carpentry skills required for the installation of doors, windows, moldings in the manufactured housing industry. In addition, students will develop the required skills for the installation of various types of floor coverings. *Offered off-campus only.*

	<b>Credit Hours</b>
CNST 265 Cabinet Making and Millwork .....	2
CNST 265L Cabinet Making and Millwork Laboratory.....	2
ENGL 101 English Composition I .....	3
MATT 105 Applied Mathematics I .....	4
MHCT 105 Finish Floor Coverings.....	3
MHCT 106 Wall Coverings and Systems Applications .....	3
MHCT 107 Door and Window Installation .....	3
MHCT 108 Finish Molding Systems.....	3
MHCT 203 Manufactured Housing and OSHA Regulations .....	3
	<b>26</b>

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011.

**MANUFACTURED HOUSING MECHANICAL SYSTEMS 8414**  
**A One-Year Program Leading to a Certificate of Program Completion**

This certificate is designed to provide the student with the skills needed to install HVAC systems, drain waste, and ventilation, and the potable water supply for the manufactured housing industry. *Offered off-campus only.*

ENGL 101	English Composition I .....	3
MATT 105	Applied Mathematics I .....	4
MHCT 112	Heating, Ventilating and Air Conditioning Delivery Systems .....	3
MHCT 113	Heating and Cooling Components Installation .....	3
MHCT 114	Potable Water Supply .....	3
MHCT 115	Drain, Waste, and Ventilation .....	3
MHCT 203	Manufactured Housing and OSHA Regulations .....	3

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**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011.

**MANUFACTURED HOUSING WOOD FRAMING 8411**  
**A One-Year Program Leading to a Certificate of Program Completion**

This certificate is designed to provide the student with floor, wall, and roof framing skills for the manufactured housing industry. *Offered off-campus only.*

	<b>Credit Hours</b>	
ENGL 101	English Composition I .....	3
MATT 105	Applied Mathematics I .....	4
MHCT 101	Floor Framing Systems .....	3
MHCT 102	Wall Framing, Partition Preparation and Assembly .....	3
MHCT 103	Roof Framing Systems .....	3
MHCT 104	Roofing, Sheathing and Shingling Applications .....	3

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**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011.

**MASSAGE THERAPY 6700**  
**A Two-Year Program Leading to the A.S. Degree**

This Associate Degree in massage therapy provides students with comprehensive training by well qualified professionals in the field of massage therapy. It is our goal to provide and maintain educational excellence and an innovative curriculum for our students. Our Associate Degree provides 73 credit hours which includes clinical experience in the University's massage clinic or in approved health care agencies. Students will focus on advancing their skills as a practitioner, be introduced to specialties in clinical massage and consider spa management. Upon successful completion, students are eligible to take the National Certification Examination for Therapeutic Massage and Bodywork (NCETMB) given by the National Certification Board of Therapeutic Massage and Bodywork (NCBTMB).

**Admission Requirements**

1. Meet admission requirements of the University.
2. Meet the University placement requirements as follows:
  - a. Complete READ 011 with a grade of C or better or appropriate placement scores
  - b. Complete ENGL 011 with a grade of C or better or appropriate placement scores
  - c. Complete MATH 012 with a grade of C or better or appropriate placement scores
3. Acceptable (to the clinical sites and the University) health and immunization records.
4. Satisfactory physical and mental health evidenced by examination by a licensed physician.
5. A satisfactory criminal background check is required, with the fee paid by the student.

**Requirements for Massage Therapy Students**

1. Student must possess and maintain certification in Community CPR.
2. Student must provide verification of Hepatitis B inoculation or refusal thereof.
3. Student is encouraged to carry an active health-hospitalization insurance policy.
4. Student must supply own transportation to the school and clinical sites.

**Standards for Progression and Graduation**

1. All required science courses *must* be completed with a C or better grade concurrently with or prior to the recommended course sequence.
2. Massage Therapy students must achieve a minimum grade of C in each course in the Massage Therapy curriculum as a prerequisite for continuance in the program. Failure to meet this requirement will result in withdrawal of the student from the program.
3. Clinical experience is evaluated by the faculty supervisor based upon criteria established by the program.
4. Students who receive less than a C in the coursework will be eligible to reapply one time for readmission to the Massage Therapy program and must repeat the failed course successfully.
5. An application for readmission to the program following withdrawal will be evaluated on an individual basis by the program director.
6. Students may only be readmitted to the program one time. If unsuccessful in the second attempt, students cannot be readmitted to the program.

*(Continued on the following page)*

<b>Major Program Requirements</b>		<b>Credit Hours</b>
		<b>44</b>
ENTR 280	Small Business Problems and Concerns .....	3
ENTR 292	Business Plan Development.....	2
FNRL 285	Clinical Pathology.....	3
HIMT 110	Medical Terminology.....	3
MASG 100	Massage Fundamentals .....	5
MASG 110	Foundations of Professional Massage.....	2
MASG 140	Clinical Education I.....	1
MASG 210	Structure, Function, Movement and Assessment.....	5
MASG 230	Asian Bodywork .....	3
MASG 232	Clinical Education II .....	1
MASG 240	Clinical Education III.....	1
MASG 250	Career in Massage Therapy .....	2
MASG 260	Clinical Education IV .....	1
MASG 262	Advanced Massage Techniques .....	3
MASG 264	Clinical Massage .....	3
MASG 272	Spa Management and Massage Modalities.....	3
PHED 294	Kinesiology .....	3

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>		<b>9</b>
ENGL 101	English Composition I .....	3
MATH 101	Intermediate Algebra .....	3
SPCH 148	Interpersonal Communication -or-	
SPCH 143	Speech .....	3

*The Reading, Writing and Speaking Intensive requirements may be met by MASG 262. The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>		<b>20</b>
ENGL 102	English Composition II .....	3
LFSC 111	Anatomy and Physiology I.....	2
LFSC 111L	Anatomy and Physiology Laboratory I .....	1
LFSC 112	Anatomy and Physiology II .....	2
LFSC 112L	Anatomy and Physiology Laboratory II.....	1
PFWL 100	Lifetime Fitness/Wellness .....	2
Humanities Elective – Common Core List .....		3
Social Science Electives – Liberal Education Core List.....		6

*Computer Skills are enhanced by MASG 250. \_\_\_\_*

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<b>Recommended Sequence of Courses</b>	
(This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
ENTR 280 .....	3
HIMT 110 .....	3
LFSC 111 .....	2
LFSC 111L.....	1
MASG 100 .....	5
MASG 110 .....	2
MASG 140 .....	1
Total Hours: 17	
<b>Semester II</b>	
FNRL 285 .....	3
LFSC 112 .....	2
LFSC 112L.....	1
MASG 210 .....	5
MASG 232 .....	1
MASG 250 .....	2
PHED 294 .....	3
Total Hours: 17	
<b>Summer Session</b>	
ENGL 101 .....	3
SPCH 143/148.....	3
Total Hours: 6	
<b>Semester III</b>	
ENGL 102 .....	3
MASG 230 .....	3
MASG 240 .....	1
MASG 272 .....	3
MATH 101 .....	3
Soc Science Elec .....	3
Total Hours: 16	
<b>Semester IV</b>	
ENTR 292 .....	2
MASG 260 .....	1
MASG 262 .....	3
MASG 264 .....	3
PFWL 100 .....	2
Humanities Elec .....	3
Soc Science Elec .....	3
Total Hours: 17	

## **MASSAGE THERAPY 6701** **A One-Year Certificate of Graduation**

This massage therapy certificate program provides students with comprehensive training by well qualified professionals in the field of massage therapy. It is our goal to provide and maintain educational excellence and a n i n n o v a t i v e curriculum for our students. Our certificate program provides 40 credit hours which includes clinical experience in the University's massage clinic or in an approved community massage clinic. Upon successful completion, students are eligible to take the National Certification Examination for Therapeutic Massage and Bodywork (NCETMB) given by the National Certification Board of Therapeutic Massage and Bodywork (NCBTMB).

### **Admission Requirements**

1. Meet admission requirements of the University.
2. Meet the University placement requirements as follows:
  - a. Complete READ 011 with a grade of C or better or appropriate placement scores
  - b. Complete ENGL 011 with a grade of C or better or appropriate placement scores
  - c. Complete MATH 011 with a grade of C or better or appropriate placement scores
3. Acceptable (to the clinical sites and the University) health and immunization records.
4. Satisfactory physical and mental health evidenced by examination by a licensed physician.
5. A satisfactory criminal background check is required, with the fee paid by the student.

### **Requirements for Massage Therapy Students**

1. Student must possess and maintain certification in Community CPR.
2. Student must provide verification of Hepatitis B inoculation or refusal thereof.
3. Student is encouraged to carry an active health-hospitalization insurance policy.
4. Student must supply own transportation to the school and clinical sites.

### **Standards for Progression and Graduation**

1. All required science courses *must* be completed with a C or better grade concurrently with or prior to the recommended course sequence.
2. Massage Therapy students must achieve a minimum grade of C in each course in the Massage Therapy curriculum as a prerequisite for continuance in the program. Failure to meet this requirement will result in withdrawal of the student from the program.
3. Clinical experience is evaluated by the faculty supervisor based upon criteria established by the program.
4. Students who receive less than a C in the coursework will be eligible to reapply one time for readmission to the Massage Therapy program and must repeat the failed course successfully.
5. An application for readmission to the program following withdrawal will be evaluated on an individual basis by the program director.
6. Students may only be readmitted to the program one time. If unsuccessful in the second attempt, students cannot be readmitted to the program.

*(Continued on the following page)*

	<b>Credit Hours</b>
ENGL 101 English Composition I .....	3
ENTR 280 Small Business and Concerns .....	3
FNRL 285 Clinical Pathology.....	3
HIMT 110 Medical Terminology for Allied Health .....	3
LFSC 111 Anatomy and Physiology I.....	2
LFSC 111L Anatomy and Physiology Laboratory I .....	1
LFSC 112 Anatomy and Physiology II .....	2
LFSC 112L Anatomy and Physiology Laboratory II.....	1
MASG 100 Massage Fundamentals .....	5
MASG 110 Foundations of Professional Massage.....	2
MASG 140 Clinical Education I .....	1
MASG 210 Structure, Function, Movement and Assessment.....	5
MASG 232 Clinical Education II .....	1
MASG 250 Career in Massage Therapy .....	2
PHED 294 Kinesiology .....	3
SPCH 148 Interpersonal Communication -or-	
SPCH 143 Speech .....	3

**40**

<b>Recommended Sequence of Courses</b>	
(This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
ENTR 280 .....	3
HIMT 110 .....	3
LFSC 111 .....	2
LFSC 111L.....	1
MASG 100 .....	5
MASG 110 .....	2
MASG 140 .....	1
Total Hours: 17	
<b>Semester II</b>	
FNRL 285 .....	3
LFSC 112 .....	2
LFSC 112L.....	1
MASG 210 .....	5
MASG 232 .....	1
MASG 250. ....	2
PHED 294 .....	3
Total Hours: 17	
<b>Summer Session</b>	
ENGL 101 .....	3
SPCH 143/148.....	3
Total Hours: 6	

**MATHEMATICAL SCIENCES – AGRICULTURAL AND BIOLOGICAL ENGINEERING  
CONCENTRATION 4270**

**A Two-Year Transfer Program Leading to the A.S. Degree**

This program is designed to prepare students to transfer to four-year institutions to earn baccalaureate degrees in engineering. Students should check specific requirements of the transfer institution. Students entering engineering should have the following high school prerequisites: one and a half years' algebra (elementary and advanced), one year plane geometry, one-half year trigonometry, and laboratory science in physics and chemistry is strongly advised. If needed, these courses are available at Vincennes University.

	<b>Credit Hours</b>																																																																													
<b>Major Program Requirements</b>	<b>42</b>																																																																													
AGRI 100 Agriculture Lectures .....	1	<table border="1"> <tr> <td align="center" colspan="2"><b>Recommended Sequence of Courses</b></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>AGRI 100 .....</td> <td align="right">1</td> </tr> <tr> <td>CHEM 105 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 105L .....</td> <td align="right">2</td> </tr> <tr> <td>CSCI 126 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 118(M) .....</td> <td align="right">5</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>CHEM 106(R) .....</td> <td align="right">3</td> </tr> <tr> <td>CSCI 159 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 119 .....</td> <td align="right">5</td> </tr> <tr> <td>PHYS 205(W) .....</td> <td align="right">5</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 19</td> </tr> <tr> <td align="center" colspan="2"><b>Summer</b></td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td>Writing Skills Course .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 6</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>ENGR 205 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105L .....</td> <td align="right">1</td> </tr> <tr> <td>MATH 220 .....</td> <td align="right">4</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>PHYS 206 .....</td> <td align="right">4</td> </tr> <tr> <td>PHYS 206L .....</td> <td align="right">1</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>ENGR 235 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGR 270 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGR 270L(S) .....</td> <td align="right">1</td> </tr> <tr> <td>MATH 223 .....</td> <td align="right">4</td> </tr> <tr> <td>Humanities Elec .....</td> <td align="right">3</td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> </table>	<b>Recommended Sequence of Courses</b>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		AGRI 100 .....	1	CHEM 105 .....	3	CHEM 105L .....	2	CSCI 126 .....	3	ENGL 101 .....	3	MATH 118(M) .....	5	Total Hours: 17		<b>Semester II</b>		CHEM 106(R) .....	3	CSCI 159 .....	3	MATH 119 .....	5	PHYS 205(W) .....	5	SPCH 143 .....	3	Total Hours: 19		<b>Summer</b>		Soc Sci Elective .....	3	Writing Skills Course .....	3	Total Hours: 6		<b>Semester III</b>		ENGR 205 .....	3	LFSC 105 .....	3	LFSC 105L .....	1	MATH 220 .....	4	PFWL 100 .....	2	PHYS 206 .....	4	PHYS 206L .....	1	Total Hours: 18		<b>Semester IV</b>		ENGR 235 .....	3	ENGR 270 .....	3	ENGR 270L(S) .....	1	MATH 223 .....	4	Humanities Elec .....	3	Soc Sci Elective .....	3	Total Hours: 17	
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CHEM 106 General Chemistry II.....	3																																																																													
CSCI 126 Introduction to Computer Tools for Scientists and Engineers .....	3																																																																													
CSCI 159 C Programming for Scientists and Engineers .....	3																																																																													
ENGR 205 Statics .....	3																																																																													
ENGR 235 Thermodynamics .....	3																																																																													
ENGR 270 Introductory Structural Mechanics.....	3																																																																													
ENGR 270L Introductory Structural Mechanics Laboratory .....	1																																																																													
LFSC 105 Principles of Life Science I.....	3																																																																													
LFSC 105L Principles of Life Science Laboratory I .....	1																																																																													
MATH 119 Calculus with Analytic Geometry II .....	5																																																																													
MATH 220 Intermediate Calculus .....	4																																																																													
MATH 223 Differential Equations with Linear Algebra.....	4																																																																													
PHYS 206 Physics for Scientists and Engineers II .....	4																																																																													
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ENGL 101 English Composition I .....	3																																																																													
MATH 118 Calculus with Analytic Geometry I <sup>1</sup> .....	5																																																																													
SPCH 143 Speech .....	3																																																																													
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<i>The Writing Intensive requirement may be met by PHYS 205.</i>																																																																														
<i>The Speaking Intensive requirement may be met by ENGR 270L.</i>																																																																														
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<b>Liberal Education Core</b>	<b>24</b>																																																																													
Writing Skills Course (ENGL 102, 107, 108, 205 or 210) .....	3																																																																													
CHEM 105 General Chemistry I .....	3																																																																													
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2																																																																													
PFWL 100 Lifetime Fitness/Wellness .....	2																																																																													
PHYS 205 Physics for Scientists and Engineers I .....	5																																																																													
Humanities Elective – Common Core List .....	3																																																																													
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**MATHEMATICAL SCIENCES – BIOMEDICAL ENGINEERING CONCENTRATION 4320**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This program addresses the need for engineers who understand biological and physiological phenomena and exploit this knowledge to design and develop biomedical processes and products. The student will be immersed in the key life science components of the field while learning its fundamental engineering science, analysis, design, and problem solving components. This integration of engineering and life sciences will occur in classes and laboratories, allowing for a more efficient cohesive, and in-depth curriculum. Graduates will contribute to industrial research and development teams by bringing unique analytical and design capabilities at the interface between the cell/tissue/body and the device or therapy. They will positively impact a medical device and products industry whose key engineering challenges are increasingly of a biological or physiological nature.

	<b>Credit Hours</b>																																																																					
<b>Major Program Requirements</b>	<b>43</b>																																																																					
CHEM 106 General Chemistry II.....	3	<table border="1"> <tr> <td align="center" colspan="2"><b>Recommended Sequence of Courses</b></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>CHEM 105 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 105L.....</td> <td align="right">2</td> </tr> <tr> <td>CSCI 126 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 118 (M) .....</td> <td align="right">5</td> </tr> <tr> <td>SPCH 143.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 19</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>CHEM 106(R) .....</td> <td align="right">3</td> </tr> <tr> <td>CSCI 159 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 102 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 119 .....</td> <td align="right">5</td> </tr> <tr> <td>PHYS 205(W).....</td> <td align="right">5</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 19</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>CHEM 215 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 215L(W/S) .....</td> <td align="right">2</td> </tr> <tr> <td>ENGR 105 .....</td> <td align="right">2</td> </tr> <tr> <td>MATH 220 .....</td> <td align="right">4</td> </tr> <tr> <td>PHYS 206 .....</td> <td align="right">4</td> </tr> <tr> <td>PHYS 206L .....</td> <td align="right">1</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>ECON 201 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105L.....</td> <td align="right">1</td> </tr> <tr> <td>MATH 223 .....</td> <td align="right">4</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>Humanities Elec.....</td> <td align="right">3</td> </tr> <tr> <td>Social Science Elec..</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 19</td> </tr> </table>	<b>Recommended Sequence of Courses</b>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		CHEM 105 .....	3	CHEM 105L.....	2	CSCI 126 .....	3	ENGL 101 .....	3	MATH 118 (M) .....	5	SPCH 143.....	3	Total Hours: 19		<b>Semester II</b>		CHEM 106(R) .....	3	CSCI 159 .....	3	ENGL 102 .....	3	MATH 119 .....	5	PHYS 205(W).....	5	Total Hours: 19		<b>Semester III</b>		CHEM 215 .....	3	CHEM 215L(W/S) .....	2	ENGR 105 .....	2	MATH 220 .....	4	PHYS 206 .....	4	PHYS 206L .....	1	Total Hours: 16		<b>Semester IV</b>		ECON 201 .....	3	LFSC 105 .....	3	LFSC 105L.....	1	MATH 223 .....	4	PFWL 100 .....	2	Humanities Elec.....	3	Social Science Elec..	3	Total Hours: 19	
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CHEM 215 .....	3																																																																					
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CHEM 215 Organic Chemistry I .....	3																																																																					
CHEM 215L Organic Chemistry Laboratory I.....	2																																																																					
CSCI 126 Introduction to Computer Tools for Scientists and Engineers .....	3																																																																					
CSCI 159 C Programming for Scientists and Engineers .....	3																																																																					
ENGR 105 Engineering Graphics .....	2																																																																					
LFSC 105 Principles of Life Science I.....	3																																																																					
LFSC 105L Principles of Life Science I Laboratory .....	1																																																																					
MATH 119 Calculus with Analytic Geometry II.....	5																																																																					
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<b>Basic Skills Core</b>	<b>11</b>																																																																					
ENGL 101 English Composition I .....	3																																																																					
MATH 118 Calculus with Analytic Geometry I .....	5																																																																					
SPCH 143 Speech .....	3																																																																					
<i>The Reading Intensive requirement may be met by CHEM 106.</i>																																																																						
<i>The Writing Intensive requirement may be met by PHYS 205 or CHEM 215L.</i>																																																																						
<i>The Writing and Speaking Intensive requirements may be met by CHEM 215L.</i>																																																																						
<i>The Mathematics Intensive requirement may be met by MATH 118.</i>																																																																						
<b>Liberal Education Core</b>	<b>19</b>																																																																					
CHEM 105 General Chemistry I .....	3																																																																					
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2																																																																					
ECON 201 Microeconomics .....	3																																																																					
ENGL 102 English Composition II .....	3																																																																					
PFWL 100 Lifetime Fitness/Wellness .....	2																																																																					
Humanities Elective – Common Core List .....	3																																																																					
Social Science Electives – Core List .....	3																																																																					
<i>Computer Skills are enhanced by CHEM 105L.</i>																																																																						

**MATHEMATICAL SCIENCES – CHEMICAL ENGINEERING CONCENTRATION 4300**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This program is designed to prepare the student to transfer to a four-year institution to earn a baccalaureate degree in engineering. Students should check specific requirements of the transfer institution. Students entering engineering should have the following high school prerequisites: one and a half years algebra (elementary and advanced), one year plane geometry, one half year trigonometry, and laboratory science in physics and chemistry. If needed, these courses are available at Vincennes University.

	<b>Credit Hours</b>
<b>Major Program Requirements</b>	<b>38</b>
CHEM 106 General Chemistry II.....	3
CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2
CHEM 215 Organic Chemistry I .....	3
CHEM 215L Organic Chemistry Laboratory I .....	2
CHEM 216 Organic Chemistry II .....	3
CHEM 216L Organic Chemistry Laboratory II.....	2
CHME 208 Chemical Engineering Calculations .....	3
CSCI 126 Introduction to Computer Tools for Scientists and Engineers .....	3
MATH 119 Calculus with Analytic Geometry II .....	5
MATH 220 Intermediate Calculus .....	4
MATH 223 Differential Equations with Linear Algebra.....	4
PHYS 206 Physics for Scientists and Engineers II .....	4

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>11</b>
ENGL 112 Rhetoric and Research <sup>1</sup> .....	3
MATH 118 Calculus with Analytic Geometry I <sup>2</sup> .....	5
SPCH 143 Speech .....	3

*The Reading Intensive requirement may be met by CHEM 106.*

*The Writing and Speaking Intensive requirements may be met by CHEM 215L.*

*The Mathematics Intensive requirement may be met by MATH 118.*

<b>Liberal Education Core</b>	<b>21</b>
CHEM 105 General Chemistry I .....	3
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2
ECON 201 Microeconomics .....	3
ECON 202 Macroeconomics .....	3
PFWL 100 Lifetime Fitness/Wellness .....	2
PHYS 205 Physics for Scientists and Engineers I .....	5
Humanities Elective – Common Core List <sup>3</sup> .....	3

*Computer Skills are enhanced by CSCI 126.*

<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
<b>Semester I</b>
CHEM 105 .....3 CHEM 105L..... 2 ENGL 112 .....3 MATH 118(M) .....5 SPCH 143 .....3 Total Hours: 16
<b>Semester II</b>
CHEM 106(R) .....3 CHEM 106L..... 2 CSCI 126 .....3 MATH 119 .....5 PHYS 205 .....5 Total Hours: 18
<b>Semester III</b>
CHEM 215 .....3 CHEM 215L(W/S) ..... 2 ECON 201 .....3 MATH 220 .....4 PFWL 100 .....2 PHYS 206 ..... 4 Total Hours: 18
<b>Semester IV</b>
CHEM 216 .....3 CHEM 216L..... 2 CHME 208 .....3 ECON 202 .....3 MATH 223 .....4 Humanities Elec .....3 Total Hours: 18

**70**

<sup>1</sup> Students not qualifying for ENGL 112 must satisfy the writing requirements by completing either of the following course sequences: (1) ENGL 101 and ENGL 102 English Composition I and II, or (2) ENGL 101 English Composition I, LITR 220 and LITR 221 Introduction to World Literature I and II. If the latter option is chosen, LITR 220 and 221 will satisfy the second writing requirement and the Humanities requirement for the A.S. degree. Students transferring to IU School of Arts and Science and Purdue School of Engineering are encouraged to consider option 2.

<sup>2</sup> If developmental courses are required, more time may be needed to complete this program.

<sup>3</sup> Students should select from the following Humanities Common Core courses based on where they plan to transfer: ARTT 110 Art Appreciation, LITR 220 Introduction to World Literature I, LITR 222 American Literature I, MUSM 118 Music Appreciation, PHIL 111 Introduction to Philosophy and PHIL 112 Introduction to Ethics.

**MATHEMATICAL SCIENCES – CIVIL ENGINEERING CONCENTRATION 4330**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed for transfer to a four-year institution. Students should check specific requirements of the respective transfer institution. Students entering engineering should have the following high school prerequisites: one and a half years' algebra (elementary and advanced), one year plane geometry, and one-half year trigonometry. A laboratory science in physics and chemistry is strongly advised. If needed, these courses are available at Vincennes University.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>41</b>	
CHEM 106 General Chemistry II -or-		<p align="center"><i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>ENGL 112 .....3            CHEM 105 .....3            CHEM 105L.....2            CSCI 126 .....3            ENGR 105 .....2            MATH 118(M).....5            Total Hours: 18</p> <hr/> <p><b>Semester II</b></p> <p>CHEM 106(R) or            CSCI 159 .....3            MATH 119 .....5            PHYS 205(W) .....5            SPCH 143 .....3            Total Hours: 16</p> <hr/> <p><b>Summer</b></p> <p>PFWL 100 .....2            Soc Sci Elective .....3            Total Hours: 5</p> <hr/> <p><b>Semester III</b></p> <p>ENGR 200 .....3            ENGR 205 .....3            MATH 220 .....4            PHYS 206(R) .....4            Soc Sci Elective .....3            Total Hours: 17</p> <hr/> <p><b>Semester IV</b></p> <p>ENGR 206 .....3            ENGR 235/Approved            Elective.....3            ENGR 270 .....3            ENGR 270L(S) .....1            MATH 223 .....4            Humanities Elec .....3            Total Hours: 17</p>
CSCI 159 C Programming for Scientists and Engineers <sup>1</sup> .....	3	
CSCI 126 Introduction to Computer Tools for Scientists and Engineers .....	3	
ENGR 105 Engineering Graphics.....	2	
ENGR 200 Engineering Surveys .....	3	
ENGR 205 Statics .....	3	
ENGR 206 Dynamics .....	3	
ENGR 235 Thermodynamics -or- Approved Elective .....	3	
ENGR 270 Introductory Structural Mechanics.....	3	
ENGR 270L Introductory Structural Mechanics Laboratory .....	1	
MATH 119 Calculus with Analytic Geometry II .....	5	
MATH 220 Intermediate Calculus .....	4	
MATH 223 Differential Equations with Linear Algebra.....	4	
PHYS 206 Physics for Scientists and Engineers II <sup>2</sup> .....	4	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>11</b>	
ENGL 112 Rhetoric and Research <sup>3</sup> .....	3	
MATH 118 Calculus with Analytic Geometry I <sup>4</sup> .....	5	
SPCH 143 Speech .....	3	
<i>The Reading Intensive requirement may be met CHEM 106 or PHYS 206.</i>		
<i>The Speaking Intensive requirement by be met by ENGR 270L.</i>		
<i>The Writing Intensive requirement may be met by PHYS 205.</i>		
<i>The Mathematics Intensive requirement may be met by MATH 118.</i>		
<b>Liberal Education Core</b>	<b>21</b>	
CHEM 105 General Chemistry I .....	3	
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PHYS 205 Physics for Scientists and Engineers I .....	5	
Humanities Elective – Common Core List .....	3	
Social Science Electives – Core List .....	6	
<i>Computer Skills are enhanced by CSCI 126 and CSCI 159.</i>		
	<hr/> <b>73</b>	

<sup>1</sup> It is recommended that students transferring to Purdue University take CHEM 106. Purdue does not accept credit in both CHEM 106 General Chemistry II and CSCI 159 C Programming for Scientists and Engineers.

<sup>2</sup> Many transfer institutions require PHYS 206L Physics II Laboratory.

<sup>3</sup> Students not qualifying for ENGL 112 must satisfy the writing requirements by completing either of the following course sequences: (1) ENGL 101 and ENGL 102 English Composition I and II, or (2) ENGL 101 English Composition I, LITR 220 and LITR 221 Introduction to World Literature I and II. If the latter option is chosen, LITR 220 and 221 will satisfy the second writing requirement and the Humanities requirement for the A.S. degree. Students transferring to IU School of Arts and Science and Purdue School of Engineering are encouraged to consider option 2.

<sup>4</sup> If developmental courses are required, more time may be needed to complete this program.

**MATHEMATICAL SCIENCES – COMPUTER SCIENCE CONCENTRATION 4601**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This program is designed to provide a solid background in practice and principles for students desiring to continue their education in the computer science field.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>31-34</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
CSCI 126 Introduction to Computer Tools for Scientists and Engineers I....	3	
CSCI 159 C Programming for Scientists and Engineers .....	3	
ENGR 266 Introduction to Digital System Design .....	3	
ENGR 266L Digital System Design Laboratory .....	1	
MATH 220 Intermediate Calculus .....	4	
MATH 223 Differential Equations with Linear Algebra.....	4	
MATH 224 Special Projects for Mathematics Majors .....	1	
Laboratory Science Electives <sup>1</sup> .....	4-5	
Electives <sup>2</sup> .....	8-10	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>11</b>	<b>Semester I</b>
ENGL 101 English Composition I .....	3	CSCI 126 .....3
MATH 118 Calculus with Analytic Geometry I .....	5	ENGL 101 .....3
SPCH 143 Speech .....	3	MATH 118(M) .....5
		SPCH 143 .....3
		Lab Science Elec. ... 4-5
		Total Hours: 18-19
		<b>Semester II</b>
		CSCI 159 .....3
		ECON 201 .....3
		ENGL 102 .....3
		MATH 119 .....5
		Lab Science Elec. ... 4-5
		Total Hours: 18-19
		<b>Semester III</b>
		ENGR 266 .....3
		ENGR 266L .....1
		MATH 220 .....4
		PFWL 100 .....2
		Electives ..... 5-7
		Total Hours: 15-17
		<b>Semester IV</b>
		ECON 202 .....3
		MATH 223 .....4
		MATH 224(R/W/S) .... 1
		PHIL 212 .....3
		Elective..... 3
		Total Hours: 14
<b>Liberal Education Core</b>	<b>23-24</b>	
ECON 201 Microeconomics .....	3	
ECON 202 Macroeconomics .....	3	
ENGL 102 English Composition II .....	3	
MATH 119 Calculus with Analytic Geometry II .....	5	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PHIL 212 Introduction to Ethics.....	3	
Laboratory Science Elective – Common Core List <sup>1</sup> .....	4-5	
<i>Computer Skills are enhanced by CSCI 159.</i>	<b>65-69</b>	

<sup>1</sup> Laboratory science electives are to be chosen from the following. Students wishing to concentrate on one specific area in science may choose 200-level courses in that area the second year.

- CHEM 105/105L General Chemistry I and Laboratory
- CHEM 106/106L General Chemistry II and Laboratory
- LFSC 105/105L Principles of Life Science I and Laboratory
- LFSC 106/106L Principles of Life Science II and Laboratory
- PHYS 105/105L General Physics I and Laboratory
- PHYS 106/106L General Physics II and Laboratory
- PHYS 205 Physics for Scientists and Engineers I
- PHYS 206/206L Physics for Scientists and Engineers II and Laboratory

<sup>2</sup> Students should check specific requirements of baccalaureate institution.

**MATHEMATICAL SCIENCES – ELECTRICAL ENGINEERING CONCENTRATION 4360**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed for transfer to a four-year institution. Students wishing to pursue Computer Engineering should also follow this curriculum which allows them to complete a substantial portion of the first two years of the Computer Engineering Program. All Students should check specific requirements of the respective transfer institution. Students entering engineering should have the following high school prerequisites: one and a half years' algebra (elementary and advanced), one year plane geometry, and one-half year trigonometry. A laboratory science in physics and chemistry is strongly advised. If needed, these courses are available at Vincennes University.

	<b>Credit Hours</b>																																																																					
<b>Major Program Requirements</b>	<b>38</b>																																																																					
CSCI 126 Introduction to Computer Tools for Scientists and Engineers....	3	<table border="1"> <tr> <td align="center" colspan="2"><i>Recommended Sequence of Courses</i></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>CHEM 105 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 105L.....</td> <td align="right">2</td> </tr> <tr> <td>CSCI 126 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 112 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 118(M) .....</td> <td align="right">5</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>CSCI 159 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 119 .....</td> <td align="right">5</td> </tr> <tr> <td>PHYS 205(W) .....</td> <td align="right">5</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <td align="center" colspan="2"><b>Summer</b></td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>ENGR 217 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGR 217L .....</td> <td align="right">1</td> </tr> <tr> <td>ENGR 266 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGR 266L .....</td> <td align="right">1</td> </tr> <tr> <td>MATH 220 .....</td> <td align="right">4</td> </tr> <tr> <td>PHYS 206(R) .....</td> <td align="right">4</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>ENGR 218 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGR 218L(S) .....</td> <td align="right">1</td> </tr> <tr> <td>ENGR 255 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 223 .....</td> <td align="right">4</td> </tr> <tr> <td>Humanities Elec .....</td> <td align="right">3</td> </tr> <tr> <td>Soc Sci Elective .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> </table>	<i>Recommended Sequence of Courses</i>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		CHEM 105 .....	3	CHEM 105L.....	2	CSCI 126 .....	3	ENGL 112 .....	3	MATH 118(M) .....	5	PFWL 100 .....	2	Total Hours: 18		<b>Semester II</b>		CSCI 159 .....	3	MATH 119 .....	5	PHYS 205(W) .....	5	SPCH 143 .....	3	Total Hours: 16		<b>Summer</b>		Soc Sci Elective .....	3	<b>Semester III</b>		ENGR 217 .....	3	ENGR 217L .....	1	ENGR 266 .....	3	ENGR 266L .....	1	MATH 220 .....	4	PHYS 206(R) .....	4	Total Hours: 16		<b>Semester IV</b>		ENGR 218 .....	3	ENGR 218L(S) .....	1	ENGR 255 .....	3	MATH 223 .....	4	Humanities Elec .....	3	Soc Sci Elective .....	3	Total Hours: 17	
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CSCI 159 C Programming for Scientists and Engineers .....	3																																																																					
ENGR 217 Linear Circuits I .....	3																																																																					
ENGR 217L Electronic Measurement Techniques .....	1																																																																					
ENGR 218 Linear Circuits II .....	3																																																																					
ENGR 218L Electronic Devices and Design Laboratory .....	1																																																																					
ENGR 255 Introduction to Electronics Analysis and Design .....	3																																																																					
ENGR 266 Introduction to Digital Logic Design.....	3																																																																					
ENGR 266L Digital Logic Design Laboratory.....	1																																																																					
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PHYS 206 Physics for Scientists and Engineers II <sup>1</sup> .....	4																																																																					
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	<b>70</b>																																																																					

<sup>1</sup> Many transfer institutions require PHYS 206L Laboratory for Physics for Scientists and Engineers II.  
<sup>2</sup> Students not qualifying for ENGL 112 must satisfy the writing requirements by completing either of the following course sequences: (1) ENGL 101 and ENGL 102 English Composition I and II, or (2) ENGL 101 English Composition I, LITR 220 and LITR 221 Introduction to World Literature I and II. If the latter option is chosen, LITR 220 and 221 will satisfy the second writing requirement and the Humanities requirement for the A.S. degree. Students transferring to IU School of Arts and Science and Purdue School of Engineering are encouraged to consider option 2.  
<sup>3</sup> If developmental courses are required, more time may be needed to complete this program.

**MATHEMATICAL SCIENCES – FOOD PROCESS ENGINEERING CONCENTRATION 4301**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

The need for high quality, naturally derived biological products such as foods, pharmaceuticals, and biochemicals has produced a high demand for capable engineers who understand the complexity of biological materials, combined with solid engineering skills. Employment and career advancement opportunities have been excellent for graduates not only nationally, but also internationally. The courses in this concentration have been selected because they are among the courses required in many four-year food process engineering majors. Students should confirm that these courses are included as a part of the requirements for the food process engineering program to which they wish to apply.

	<b>Credit Hours</b>																																																																	
<b>Major Program Requirements</b>	<b>37</b>																																																																	
CHEM 106 General Chemistry II.....	3	<table border="1"> <tr> <td align="center" colspan="2"><b>Recommended Sequence of Courses</b></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>CHEM 105 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 105L .....</td> <td align="right">2</td> </tr> <tr> <td>ENGL 112 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 118(M) .....</td> <td align="right">5</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>CHEM 106(R) .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 106L .....</td> <td align="right">2</td> </tr> <tr> <td>CSCI 126 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 119 .....</td> <td align="right">5</td> </tr> <tr> <td>PHYS 205 .....</td> <td align="right">5</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>CHEM 215 .....</td> <td align="right">3</td> </tr> <tr> <td>CHEM 215L(W/S) .....</td> <td align="right">2</td> </tr> <tr> <td>ECON 201 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 220 .....</td> <td align="right">4</td> </tr> <tr> <td>PFWL 100 .....</td> <td align="right">2</td> </tr> <tr> <td>PHYS 206 .....</td> <td align="right">4</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 18</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>CHME 208 .....</td> <td align="right">3</td> </tr> <tr> <td>ECON 202 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105 .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 105L .....</td> <td align="right">1</td> </tr> <tr> <td>MATH 223 .....</td> <td align="right">4</td> </tr> <tr> <td>Humanities Elec.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> </table>	<b>Recommended Sequence of Courses</b>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		CHEM 105 .....	3	CHEM 105L .....	2	ENGL 112 .....	3	MATH 118(M) .....	5	SPCH 143 .....	3	Total Hours: 16		<b>Semester II</b>		CHEM 106(R) .....	3	CHEM 106L .....	2	CSCI 126 .....	3	MATH 119 .....	5	PHYS 205 .....	5	Total Hours: 18		<b>Semester III</b>		CHEM 215 .....	3	CHEM 215L(W/S) .....	2	ECON 201 .....	3	MATH 220 .....	4	PFWL 100 .....	2	PHYS 206 .....	4	Total Hours: 18		<b>Semester IV</b>		CHME 208 .....	3	ECON 202 .....	3	LFSC 105 .....	3	LFSC 105L .....	1	MATH 223 .....	4	Humanities Elec.....	3	Total Hours: 17	
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CHEM 106L General Chemistry/Qualitative Analysis Laboratory .....	2																																																																	
CHEM 215 Organic Chemistry I .....	3																																																																	
CHEM 215L Organic Chemistry Laboratory I .....	2																																																																	
CHME 208 Chemical Engineering Calculations .....	3																																																																	
CSCI 126 Introduction to Computer Tools for Scientists & Engineers.....	3																																																																	
LFSC 105 Principles of Life Science I.....	3																																																																	
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<i>Computer Skills are enhanced by CSCI 126. _</i>																																																																		
	<b>69</b>																																																																	

<sup>1</sup> Students not qualifying for ENGL 112 must satisfy the writing requirements by completing either of the following course sequences: (1) ENGL 101 and ENGL 102 English Composition I and II, or (2) ENGL 101 English Composition I, LITR 220 and LITR 221 Introduction to World Literature I and II. If the latter option is chosen, LITR 220 and 221 will satisfy the second writing requirement and the Humanities requirement for the A.S. degree. Students transferring to IU School of Arts and Science and Purdue School of Engineering are encouraged to consider option 2.

<sup>2</sup> If developmental courses are required, more time may be needed to complete the program.

<sup>3</sup> Students should select from the following Humanities Common Core courses based on where they plan to transfer: ARTT 110 Art Appreciation, LITR 220 Introduction to World Literature I, LITR 222 American Literature I, MUSM 118 Music Appreciation, PHIL 111 Introduction to Philosophy and PHIL 112 Introduction to Ethics.

**MATHEMATICAL SCIENCES – MATHEMATICS CONCENTRATION 4600**  
**A Two-Year Transfer Program Leading to the A.S. or A.A. Degree**

This curriculum is designed for those planning to transfer in liberal arts with a major in mathematics. It follows closely the liberal arts program with emphasis on mathematics. Students should check degree requirements of the transfer institution.

		Credit Hours - A.S.	A.A.	<i>Recommended Sequence of Courses for A.S.</i>	<i>Recommended Sequence of Courses for A.A.</i>		
<b>Major Program Requirements</b>		<b>35</b>	<b>23</b>				
CSCI 159	C Programming for Scientists and Engineers.....	3	3	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  ENGL 101 .....3 MATH 118(M) ..... 5 SPCH 143 .....3 Lab Science Elec.....3 Elective..... 3 Total Hours: 17  <b>Semester II</b>  CSCI 159 .....3 ENGL 102 .....3 HIST 132/140.....3 MATH 119 .....5 Elective..... 3 Total Hours: 17  <b>Semester III</b>  ECON 201(R)/ SOCL 151..... 3 HIST 131/139.....3 MATH 220 .....4 PHIL 111 .....3 Elective..... 3 Total Hours: 16  <b>Semester IV</b>  ECON 202(R)/ SOCL 252..... 3 MATH 223 .....4 MATH 224(R/W/S) .1 PFWL 100 .....2 PHIL 213(R/W/S) .....3 Elective..... 3 Total Hours: 16	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  ENGL 101 .....3 MATH 118(M) .....5 SPCH 143 .....3 Foreign Lang.....4 Lab Science Elec..... 3 Total Hours: 18  <b>Semester II</b>  CSCI 159 .....3 ENGL 102 .....3 HIST 132/140 .....3 MATH 119 .....5 Foreign Lang.....4 Total Hours: 18  <b>Semester III</b>  ECON 201(R)/ SOCL 151 .....3 HIST 131/139 .....3 MATH 220 .....4 PHIL 111 .....3 Foreign Lang.....4 Total Hours: 17  <b>Semester IV</b>  ECON 202(R)/ SOCL 252 .....3 MATH 223 .....4 MATH 224(R/W/S) .1 PFWL 100 .....2 PHIL 213(R/W/S) .....3 Foreign Lang.....4 Total Hours: 17		
HIST 131	Survey of European History I -or-						
HIST 139	American History I.....	3	3				
HIST 132	Survey of European History II -or-						
HIST 140	American History II.....	3	3				
MATH 119	Calculus with Analytic Geometry II.....	5	5				
MATH 220	Intermediate Calculus.....	4	4				
MATH 223	Differential Equations with Linear Algebra.....	4	4				
MATH 224	Special Projects for Mathematics Majors..	1	1				
Elective(s) <sup>1</sup>	.....	12	0				
<b>General Education Requirements</b>							
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>							
<b>Basic Skills Core</b>		<b>11</b>	<b>11</b>				
ENGL 101	English Composition I.....	3	3				
MATH 118	Calculus with Analytic Geometry I.....	5	5				
SPCH 143	Speech.....	3	3				
<i>The Reading Intensive requirement may be met by ECON 201 or ECON 202 or MATH 224 or PHIL 213.</i>							
<i>The Writing and Speaking Intensive requirements may be met by MATH 224 or PHIL 213.</i>							
<i>The Mathematics Intensive requirement may be met by MATH 118.</i>							
<b>Liberal Education Core</b>		<b>20</b>	<b>36</b>				
ECON 201	Microeconomics -or-						
SOCL 151	Principles of Sociology.....	3	3				
ECON 202	Macroeconomics -or-						
SOCL 252	Social Problems.....	3	3				
ENGL 102	English Composition II.....	3	3				
PFWL 100	Lifetime Fitness/Wellness.....	2	2				
PHIL 111	Introduction to Philosophy.....	3	3				
PHIL 213	Logic.....	3	3				
Foreign Language Electives	.....	-	16				
Laboratory Science Elective – Common Core List <sup>2</sup>	.....	3	3				
<i>Computer Skills are enhanced by CSCI 159.</i>							
		<b>66</b>	<b>70</b>				

<sup>1</sup> Students should check specific requirements of baccalaureate institution.

<sup>2</sup> Laboratory science electives are to be chosen from the following. Students wishing to concentrate on one specific area in science may choose 200-level courses in that area the second year.

- CHEM 105/105L General Chemistry I and Laboratory
- CHEM 106/106L General Chemistry II and Laboratory
- LFSC 105/105L Principles of Life Science I and Laboratory
- LFSC 106/106L Principles of Life Science II and Laboratory
- PHYS 105/105L General Physics I and Laboratory
- PHYS 106/106L General Physics II and Laboratory
- PHYS 205 Physics for Scientists and Engineers I
- PHYS 206/206L Physics for Scientists and Engineers II and Laboratory

**MATHEMATICAL SCIENCES – MECHANICAL ENGINEERING CONCENTRATION 4390**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed for transfer to a four-year institution. Students should check specific requirements of the respective transfer institution. Students entering engineering should have the following high school prerequisites: one and a half years' algebra (elementary and advanced), one year plane geometry, and one-half year trigonometry. A laboratory science in physics and chemistry is strongly advised. If needed, these courses are available at Vincennes University.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>42</b>	<p align="center"><i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>CHEM 105 .....3            CHEM 105L.....2            CSCI 126 .....3            ENGL 112 .....3            ENGR 105 .....2            MATH 118(M) .....5            Total Hours: 18</p> <hr/> <p><b>Semester II</b></p> <p>CSCI 159 .....3            MATH 119 .....5            PHYS 205(W) .....5            SPCH 143 .....3            Total Hours: 16</p> <hr/> <p><b>Summer</b></p> <p>PFWL 100 .....2            Soc Sci Elective .....3            Total Hours: 5</p> <hr/> <p><b>Semester III</b></p> <p>ENGR 205 .....3            ENGR 217 .....3            ENGR 217L .....1            MATH 220 .....4            PHYS 206(R) .....4            Soc Sci Elective .....3            Total Hours: 18</p> <hr/> <p><b>Semester IV</b></p> <p>ENGR 206 .....3            ENGR 235 .....3            ENGR 270 .....3            ENGR 270L(S) .....1            MATH 223 .....4            Humanities Elec .....3            Total Hours: 17</p>
CSCI 126 Introduction to Computer Tools for Scientists and Engineers .....	3	
CSCI 159 C Programming for Scientists and Engineers .....	3	
ENGR 105 Engineering Graphics.....	2	
ENGR 205 Statics .....	3	
ENGR 206 Dynamics .....	3	
ENGR 217 Linear Circuits I .....	3	
ENGR 217L Electronic Measurement Techniques .....	1	
ENGR 235 Thermodynamics .....	3	
ENGR 270 Introductory Structural Mechanics.....	3	
ENGR 270L Introductory Structural Mechanics Laboratory .....	1	
MATH 119 Calculus with Analytical Geometry II .....	5	
MATH 220 Intermediate Calculus .....	4	
MATH 223 Differential Equations with Linear Algebra.....	4	
PHYS 206 Physics for Scientists and Engineers II <sup>1</sup> .....	4	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>11</b>	
ENGL 112 Rhetoric and Research <sup>2</sup> .....	3	
MATH 118 Calculus with Analytical Geometry I <sup>3</sup> .....	5	
SPCH 143 Speech .....	3	
<i>The Reading Intensive requirement may be met by PHYS 206.</i>		
<i>The Speaking Intensive requirement may be met by ENGR 270L.</i>		
<i>The Writing Intensive requirement may be met by PHYS 205.</i>		
<i>The Mathematics Intensive requirement may be met by MATH 118.</i>		
<b>Liberal Education Core</b>	<b>21</b>	
CHEM 105 General Chemistry I .....	3	
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PHYS 205 Physics for Scientists and Engineers I .....	5	
Humanities Elective – Common Core List .....	3	
Social Science Electives – Core List .....	6	
<i>Computer Skills are enhanced by CSCI 126 and 159.</i>		
<b>74</b>	<b>—</b>	

<sup>1</sup> Many transfer institutions require PHYS 206L Physics II Laboratory.

<sup>2</sup> Students not qualifying for ENGL 112 must satisfy the writing requirements by completing either of the following course sequences: (1) ENGL 101 and ENGL 102 English Composition I and II, or (2) ENGL 101 English Composition I, LITR 220 and LITR 221 Introduction to World Literature I and II. If the latter option is chosen, LITR 220 and 221 will satisfy the second writing requirement and the Humanities requirement for the A.S. degree. Students transferring to IU School of Arts and Science and Purdue School of Engineering are encouraged to consider option 2.

<sup>3</sup> If developmental courses are required, more time may be needed to complete this program.



**MATHEMATICAL SCIENCES – PRE-ENGINEERING CONCENTRATION 4570**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is designed for transfer to a four-year institution. Those students interested in industrial, computer, and aeronautical engineering could complete part of their education at Vincennes University by following this pre-engineering concentration. Students should check specific requirements of the respective transfer institution. Students entering pre-engineering should have the following high school prerequisites: one and a half years' algebra (elementary and advanced), one year plane geometry, and one-half year trigonometry. A laboratory science in physics and chemistry is strongly advised. If needed, these courses are available at Vincennes University.

	<b>Credit Hours</b>
<b>Major Program Requirements</b>	<b>31</b>
CSCI 126 Introduction to Computer Tools for Scientists and Engineers .....	3
CSCI 159 C Programming for Scientists and Engineers .....	3
MATH 119 Calculus with Analytical Geometry II .....	5
MATH 220 Intermediate Calculus .....	4
PHYS 206 Physics for Scientists and Engineers II <sup>1</sup> .....	4
Technical Electives <sup>2</sup> .....	12

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>11</b>
ENGL 112 Rhetoric and Research <sup>3</sup> .....	3
MATH 118 Calculus with Analytical Geometry I.....	5
SPCH 143 Speech .....	3

*The Reading Intensive requirement may be met by PHYS 206.  
 The Speaking Intensive requirement may be met by ENGR 218L or 270L.  
 The Writing Intensive requirement may be met by PHYS 205.  
 The Mathematics Intensive requirement may be met by MATH 118.*

<b>Liberal Education Core</b>	<b>21</b>
CHEM 105 General Chemistry I .....	3
CHEM 105L General Chemistry/Quantitative Analysis Laboratory .....	2
PFWL 100 Lifetime Fitness/Wellness .....	2
PHYS 205 Physics for Scientists and Engineers I .....	5
Humanities Elective – Common Core List .....	3
Social Science Electives – Core List .....	6

*Computer Skills are enhanced by CSCI 126 and 159.*

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<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
<b>Semester I</b>
CHEM 105 .....3 CHEM 105L..... 2 CSCI 126 .....3 ENGL 112 .....3 MATH 118(M)..... 5 Total Hours: 16
<b>Semester II</b>
CSCI 159 .....3 MATH 119 .....5 PFWL 100 .....2 PHYS 205(W) ..... 5 Total Hours: 15
<b>Semester III</b>
MATH 220 .....4 PHYS 206(R)..... 4 SPCH 143 .....3 Technical Elec..... 5 Total Hours: 16
<b>Semester IV</b>
Humanities Elec ..... 3 Social Science Elec .... 6 Technical Elec ..... 7 Total Hours: 16

<sup>1</sup> Many transfer institutions require PHYS 206L Laboratory for Physics and Engineers II.

<sup>2</sup> Technical electives include:

- CHEM 106L General Chemistry/Qualitative Analysis Laboratory
- MATH 223 Linear Algebra and Differential Equations
- MATH 265 Linear Algebra
- MATH 266 Differential Equations
- ENGR 105 Engineering Graphics
- ENGR 200 Engineering Surveys
- ENGR 205 Statics
- ENGR 206 Dynamics
- ENGR 217 Linear Circuits I and ENGR 217L Electronic Measurement Techniques
- ENGR 218 Linear Circuits II and ENGR 218L Electronic Devices and Design Laboratory
- ENGR 235 Thermodynamics I
- ENGR 266 Introduction to Digital Logic Design and ENGR 266L Digital Logic Design Laboratory
- ENGR 270 Introductory Structural Mechanics and ENGR 270L Introductory Structural Mechanics Laboratory
- PHYS 206L Laboratory for Physics and Engineers II

<sup>3</sup> Students not qualifying for ENGL 112 must satisfy the writing requirements by completing either of the following course sequences: (1) ENGL 101 and ENGL 102 English Composition I and II, or (2) ENGL 101 English Composition I, LITR 220 and LITR 221 Introduction to World Literature I and II. If the latter option is chosen, LITR 220 and 221 will satisfy the second writing requirement and the Humanities requirement for the A.S. degree. Students transferring to IU School of Arts and Science and Purdue School of Engineering are encouraged to consider option 2.

**METALWORKING TECHNOLOGY 8430**  
**A One-Year Certificate of Program Completion**

This intensive one-year program is designed to prepare graduates for gainful employment in the metalworking industry. Students choosing this program will be tested on communication and mathematics skills to assure that they are ready for entry into the appropriate course. Courses in reading, writing and mathematics will be required if test scores indicate need.

	<b>Credit Hours</b>
DRAF 101 Introduction to Drafting .....	3
DRAF 120 Computers for Technology.....	2
MTTD 105 Metallurgy and Industrial Blueprint Reading .....	2
MTTD 115 CNC Programming and Operations I .....	4
MTTD 125 CNC Machining Centers .....	3
MTTD 135 Manufacturing Processes .....	2
MTTD 135L Manufacturing Processes Laboratory .....	1
MTTD 140 Basic Machining I <sup>1</sup> .....	3
MTTD 141 Basic Machining II <sup>1</sup> .....	3
MTTD 142 Basic Machining III <sup>1</sup> .....	3
MTTD 145 Quality Assurance .....	3
	<b>29</b>

<i>Recommended Sequence of Courses</i>	
(This sequence assumes any necessary developmental requirements have been met.)	
Semester I	
MTTD 105 .....	2
MTTD 135 .....	2
MTTD 135L.....	1
MTTD 140 .....	3
MTTD 145 .....	3
DRAF 101 .....	<u>3</u>
Total Hours: 14	
Semester II	
MTTD 115 .....	4
MTTD 125 .....	3
MTTD 141 .....	3
MTTD 142 .....	3
DRAF 120 .....	<u>2</u>
Total Hours: 15	

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in ENGL 009 or 011, READ 009 and 011, and MATH 011, MATT 103, 105 or 109.

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<sup>1</sup>The MTTD 140, 141 and 142 requirements may be met by the completion of MTTD 100 General Machines.

**MINING TECHNOLOGY 8500**  
**A Two-Year Program Leading to the A.A.S. Degree**

The Mining Technology curriculum was developed as a collaboration between Vincennes University and the mining industry within Indiana. This curriculum provides its graduates with an understanding of the industry. Specifically, it provides an understanding of methods, materials, laws, environment, health and safety applicable to the industry. Graduates of this program will progress to managerial and leadership positions within the industry.

		Credit Hours
<b>Major Program Requirements</b>		<b>51</b>
CIMT 100	Electronics for Automation I .....	3
CIMT 100L	Electronics for Automation Laboratory I .....	3
CIMT 140	Mechanical Drives .....	2
CIMT 140L	Mechanical Drives Laboratory .....	1
CIMT 160	Hydraulics and Pneumatics .....	1
CIMT 160L	Hydraulics and Pneumatics Laboratory .....	2
CIMT 175	Electro-Mechanical Controls .....	2
CIMT 175L	Electro-Mechanical Controls Laboratory .....	2
CIMT 190	Introduction to PLC Programming and Applications .....	3
DRAF 120	Computers for Technology .....	2
MGMT 250	Introduction to Management .....	3
MGMT 256	Human Resource Management .....	3
MGMT 257	Supervision .....	3
MGMT 284	Operations Management .....	3
MSHT 100	Mining Practices .....	3
MSHT 200	Mining Law & Regulations .....	3
MSHT 220	Mining Health & Safety .....	3
MSHT 240	Mine Atmosphere & Environment .....	3
MSHT 260	Material Handling & Processes .....	3
SURV 100	Surveying Fundamentals .....	3
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>		<b>9</b>
ENGL 101	English Composition I .....	3
MATH 102	College Algebra .....	3
SPCH 143	Speech .....	3
<i>The Reading Intensive requirement may be met by MGMT 250 or MGMT 256.</i>		
<i>The Writing Intensive requirement may be met by MGMT 250.</i>		
<i>The Speaking Intensive requirement may be met by CIMT 190.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>		<b>17</b>
HLTH 211	First Aid .....	2
HLTH 213	Advanced First Aid .....	2
MATH 104	Trigonometry .....	3
PFWL 115	Concepts in Wellness .....	1
PSYC 142	General Psychology .....	3
Elective – One course from one of the following areas:		
Humanities or Science – Broad Core List -or-		
Social Science or Writing – Core List .....		3
Science Elective – Common Core List .....		3
<i>Computer Skills are enhanced by DRAF 120.</i>		
		<b>77</b>

<i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)		
<b>Semester I</b>		
CIMT 100 .....	3	
CIMT 100L .....	3	
DRAF 120 .....	2	
ENGL 101 .....	3	
HLTH 211 .....	2	
MATH 102 .....	3	
SURV 100 .....	3	
Total Hours: 19		
<b>Semester II</b>		
CIMT 175 .....	2	
CIMT 175L .....	2	
MATH 104 .....	3	
MGMT 250(R/W) .....	3	
MSHT 100 .....	3	
SPCH 143 .....	3	
Science Elective .....	3	
Total Hours: 19		
<b>Semester III</b>		
CIMT 140 .....	2	
CIMT 140L .....	1	
CIMT 190(S) .....	3	
HLTH 213 .....	2	
MGMT 256(R) .....	3	
MSHT 200 .....	3	
MSHT 220 .....	3	
Hum/Sci/Soc Sci/ Writing Elec .....		3
Total Hours: 20		
<b>Semester IV</b>		
CIMT 160 .....	1	
CIMT 160L .....	2	
MGMT 257 .....	3	
MGMT 284 .....	3	
MSHT 240 .....	3	
MSHT 260 .....	3	
PFWL 115 .....	1	
PSYC 142 .....	3	
Total Hours: 19		

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**MULTIMEDIA COMMUNICATIONS 2430**  
**A Two-Year Program Leading to the A.A.S. Degree**

This program provides broad-based instruction in information, skills, and techniques needed to enter one of the many fields involved in Multimedia Communication.

	<b>Credit Hours</b>		
<b>Major Program Requirements</b>	<b>41-44</b>		
COMP 107 Web Page Design.....	3	<p style="text-align: center;"><b>Recommended Sequence of Courses</b></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p style="text-align: center;"><b>Semester I</b></p> <hr/> <p>COMP 107 .....3            COMP 110/            DRAF 120 .....2-3            ENGL 101 .....3            MCOM 102 .....3            SPCH 143/148.....3            Emphasis Course...2-3            Total Hours: 16-18</p> <hr/> <p style="text-align: center;"><b>Semester II</b></p> <hr/> <p>DESN 215 .....3            ENGL 109 .....3            PRNT 101 .....1            PRNT 101L .....2            PRNT 155 .....2            PRNT 155L .....2            Emphasis Course...2-3            Math Elective .....3            Total Hours: 18-19</p> <hr/> <p style="text-align: center;"><b>Semester III</b></p> <hr/> <p>DESN 200 .....3            DESN 230 .....3            PFWL 100 .....2            PSYC 142 .....3            Emphasis Course.....3            Science Elective.....3            Total Hours: 17</p> <hr/> <p style="text-align: center;"><b>Semester IV</b></p> <hr/> <p>MCOM 285(R/W/S) ...4            Emphasis Courses .....6            Hum/Soc Sci Elec .....3            Total Hours: 13</p>	
COMP 110 Introduction to Computer Concepts -or-			
DRAF 120 Computers for Technology <sup>1</sup> .....	2-3		
DESN 200 Computer Imaging .....	3		
DESN 215 Multimedia I .....	3		
DESN 230 Multimedia II .....	3		
MCOM 102 Introduction to Audio-Video Production <sup>2</sup> .....	3		
MCOM 285 Multimedia Internship/Practicum .....	4		
PRNT 101 Introduction to Still Photography.....	1		
PRNT 101L Introduction to Still Photography Laboratory .....	2		
PRNT 155 Computer Aided Publishing .....	2		
PRNT 155L Computer Aided Publishing Laboratory .....	2		
Emphasis Area Courses <sup>3</sup> .....	13-15		
<b>General Education Requirements</b>			
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>			
<b>Basic Skills Core</b>	<b>9</b>		
ENGL 101 English Composition I .....	3		
100-level or Higher Mathematics Course .....	3		
SPCH 143 Speech -or-			
SPCH 148 Interpersonal Communication .....	3		
<i>The Reading, Writing and Speaking Intensive requirements may be met by MCOM 285. The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>			
<b>Liberal Education Core</b>	<b>14</b>		
ENGL 109 Broadcast Writing .....	3		
PFWL 100 Lifetime Fitness/Wellness .....	2		
PSYC 142 General Psychology .....	3		
Science Elective--Common Core List.....	3		
Humanities Elective--Broad Core List -or-			
Social Science Elective--Core List .....	3		
<i>Computer Skills are enhanced by COMP 110 and DRAF 120. _</i>			
	<b>64-67</b>		

(Continued on the following page)

<sup>1</sup> Students enrolled in the Commercial Art emphasis will take DESN 120 in place of COMP 110 or DRAF 120.

<sup>2</sup> Students enrolled in the Broadcast emphasis will take BCST 120 and 140 in place of MCOM 102.

<sup>3</sup> Select 13- 15 hours from one of six areas of emphasis. See the following page for a list of those areas of emphasis and required courses.

<b>Broadcasting Emphasis</b>	<b>15</b>
BCST 120 Beginning Radio Production .....	3
BCST 140 Beginning Television Production.....	3
BCST 161 Advanced Radio Production .....	3
BCST 180 Advanced Television Production .....	3
BCST 260 Video Editing and Post-Production .....	3
(Note: BCST 120 and 140 will be taken in place of MCOM 102 in the major program requirements.)	

<b>Commercial Art Emphasis</b>	<b>18</b>
DESN 120 Computer Illustration .....	3
DESN 125 Graphic Design I.....	3
DESN 210 Graphic Design II.....	3
DESN 225 Graphic Design III .....	3
DESN 250 Portfolio Review .....	3
DESN 260 Design and Production Studio .....	3
(Note: DESN 125 will be taken in place of DESN 101 and DESN 120 will be taken in place of COMP 110 or DRAF 120 in the major program requirements.)	

<b>Marketing/Advertising Emphasis</b>	<b>15</b>
ENTR 223 Small Business Marketing .....	3
MGMT 255 Principles of Salesmanship .....	3
MGMT 280 Introduction to Marketing .....	3
MKTG 250 Sales Management .....	3
MKTG 260 Advertising and Promotion .....	3

<b>Printing Emphasis</b>	<b>15</b>
PRNT 102 Introduction to Screen Printing .....	1
PRNT 102L Introduction to Screen Printing Laboratory .....	2
PRNT 105 Survey of Printing Techniques .....	1
PRNT 105L Survey of Printing Techniques Laboratory .....	2
PRNT 107 Principles of Layout.....	2
PRNT 107L Principles of Layout Laboratory .....	1
PRNT 215 Advanced Computer Aided Publishing.....	1
PRNT 215L Advanced Computer Aided Publishing Laboratory .....	2
PRNT 220 Electronic Trapping/Imposition and Flightcheck .....	1
PRNT 220L Electronic Trapping/Imposition and Flightcheck Laboratory .....	2

<b>Audio Recording Emphasis</b>	<b>16</b>
ELEC 101 Fundamentals of Audio Equipment Maintenance.....	2
MUSA 100 Introduction to Audio Recording .....	2
MUSA 101 Audio Recording I .....	2
MUSA 102 Audio Recording II .....	2
MUSA 103 Audio Post Production .....	2
MUSC 213 MIDI-Computer Elective .....	2
MUSM 101 Beginning Piano Class -or- Equivalent* .....	1
MUSM 105 Introduction to Music Theory .....	3
(* See explanation of equivalents under course descriptions.)	

<b>Computer Web Technology Emphasis</b>	<b>15</b>
COMP 113 Advanced Web Page Design.....	3
CWEB 151 Introduction to Web Graphics and Tools .....	3
CWEB 153 Multimedia on the Web .....	3
CWEB 211 Project Management .....	3
CWEB 213 Web-Based Electronic Commerce .....	3

**MUSIC – AUDIO RECORDING 2440**  
**A Two-Year Program Leading to the A.A.S. Degree**

This curriculum provides extensive training and experience by expanding on all core skills covered in the one-year program in order to prepare graduates for a wide range of employment opportunities in the audio recording profession.

	Credit Hours	<i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)
<b>Major Program Requirements</b>	<b>41</b>	
COMP 107 Web Page Design .....	3	
DESN 215 Multimedia I -or- Approved Elective <sup>1</sup> .....	3	
DESN 230 Multimedia II -or- Approved Elective <sup>1</sup> .....	3	
ELEC 101 Fundamentals of Audio Equipment Maintenance .....	2	
MCOM 102 Introduction to Audio-Video Production .....	3	
MUSA 100 Introduction to Audio Recording .....	2	
MUSA 101 Audio Recording I .....	2	
MUSA 102 Audio Recording II .....	2	
MUSA 103 Audio Post-Production .....	2	
MUSA 201 Digital Audio Recording .....	3	
MUSA 202 Audio Recording Production.....	3	
MUSC 213 Computer-MIDI Laboratory Elective.....	2	
MUSM 101 Beginning Piano Class – or – Elective.....	1	
MUSM 102 Intermediate Piano Class -or- Equivalent <sup>2</sup> .....	1	
MUSM 105 Introduction to Music Theory .....	3	
MUSM 118 Music Appreciation .....	3	
MUSM 205 Business of Entertainment .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
100-level or Higher Mathematics .....	3	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by MUSM 205. The Mathematics Intensive requirement may be met by passing a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>	<b>14</b>	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PSCI 103 Basic Physics of Music and Sound .....	3	
PSYC 141 Applied Psychology -or-		
PSYC 142 General Psychology .....	3	
Social Science Elective – Common Core List .....	3	
Writing Elective – ENGL 102, 107, 108, 202 .....	3	
<i>The Computer Skills are enhanced by COMP 107. ____</i>		
	<b>64</b>	
		<b>Semester I</b>
		ENGL 101 .....3
		MUSA 100 .....2
		MUSA 101 .....2
		MUSC 213 ..... 2
		MUSM 101 ..... 1
		MUSM 105 ..... 3
		SPCH 143/148..... 3
		Total Hours: 16
		<b>Semester II</b>
		COMP 107 .....3
		ELEC 101 .....2
		MCOM 102 .....3
		MUSA 102 .....2
		MUSA 103 .....2
		PSCI 103 ..... 3
		Total Hours: 15
		<b>Semester III</b>
		DESN 215/Elective .... 3
		MUSA 201 .....3
		MUSM 118 ..... 3
		PFWL 100 .....2
		PSYC 141/142..... 3
		Writing Elec. .... 3
		Total Hours: 17
		<b>Semester IV</b>
		DESN 230/Elective .... 3
		MUSA 202 .....3
		MUSM 102 ..... 1
		MUSM 205(R/W/S) ....3
		Math Elective ..... 3
		Soc Science Elec ..... 3
		Total Hours 16

<sup>1</sup> Approved electives include MUSM 206, MUSM 207 and MUSM 208.

<sup>2</sup> See explanation of equivalents under course descriptions.

**MUSIC – AUDIO RECORDING 2441**  
**A Certificate of Program Completion**

This comprehensive one-year program is designed to provide core skills in all aspects of audio recording. Through hands-on experiences, students are taught the basics of microphone technique, signal flow and the mixing console, analog, digital, and hard disk recording devices, mixing and mastering multitrack recordings for the production of compact discs, and an introduction to the Pro Tools hard disk recording system. Musicianship basics in music theory, piano, and MIDI sequencing are also provided.

	<b>Credit Hours</b>	
COMP 107 Web Page Design .....	3	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester I</b></p> <hr style="border: 1px solid black;"/> <p>ENGL 101 .....3  MCOM 102 .....3  MUSA 100 .....2  MUSA 101 .....2  MUSC 213 .....2  MUSM 101 .....1  Total Hours: 13</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester II</b></p> <hr style="border: 1px solid black;"/> <p>COMP 107 .....3  ELEC 101 .....2  MUSA 102 .....2  MUSA 103 .....2  MUSM 105 .....3  PSCI 103 .....3  Total Hours: 15</p>
ELEC 101 Fundamentals of Audio Equipment Maintenance .....	2	
ENGL 101 English Composition I .....	3	
MCOM 102 Introduction to Audio-Video Production .....	3	
MUSA 100 Introduction to Audio Recording .....	2	
MUSA 101 Audio Recording I .....	2	
MUSA 102 Audio Recording II .....	2	
MUSA 103 Audio Recording III .....	2	
MUSC 213 MIDI-Computer Elective .....	2	
MUSM 101 Beginning Piano Class -or- Equivalent <sup>1</sup> .....	1	
MUSM 105 Introduction to Music Theory .....	3	
PSCI 103 Basic Physics of Music and Sound .....	3	
	<b>28</b>	

**NOTE:** All students must satisfy the University’s minimal requirements through either placement tests or enrollment in READ 011 and MATH 011, MATT 103, 105 or 109.

<sup>1</sup> See explanation of equivalents under course descriptions.





**NURSING 6001**  
**RN to BSN Completion**  
**A Two-Year Program Leading to a B.S. Degree**

Registered nurses who have completed an associate degree or diploma from a program that is accredited by the National League for Nursing Accrediting Commission (NLNAC) may apply for admission to the RN to BSN program and earn a baccalaureate in nursing. NLNAC candidacy application is in process. The program is designed to provide professional registered nurses the opportunity to achieve advancement in their careers and seek leadership and management roles in the health care setting. The didactic nursing courses will be offered on campus and the clinical experiences will be in various healthcare settings.

The RN to BSN Completion program will be seeking accreditation by the Indiana State Board of Nursing and the National League for Nursing Accrediting Commission (NLNAC). Information on accreditation status may be obtained by contacting the NLNAC. They may be contacted at the following address: NLNAC, Inc., 61 Broadway, 33rd Floor, New York, NY 10006 (1-800-669-1656, Extension 153, or [www.nlnac.org](http://www.nlnac.org)).

### **Program Outcomes**

At the completion of the RN-BSN Completion program, the graduate will:

1. Demonstrate critical thinking and intellectual curiosity in order to provide holistic care to a variety of clients.
2. Provide leadership through communication with clients and the interdisciplinary team for the purpose of positively affecting health care outcomes.
3. Demonstrate caring through a holistic approach to client care.
4. Facilitate community and public health education to achieve optimal levels of wellness for the client.
5. Practice within an ethical framework and legal guidelines promoting a positive public image of nursing, and participating in the change process to shape health care policy.
6. Utilize current research to provide client care and pursue lifelong learning to maintain professional growth.

### **Admission Requirements**

All applicants must meet the following basic admission requirements.

1. Meet admission requirements of the University.
2. Possess physical and mental health acceptable for performance in the occupation as evidenced by examination by a licensed physician.
3. Must possess an Indiana Registered Nurse license prior to beginning any 300 level clinical nursing courses, and maintain licensure in Indiana and state of clinical practicum.
4. Complete all Vincennes University General Education requirements for an A.S. Degree. Transfer students who are licensed Registered Nurses within six hours of completing the A.S. General Education Requirements, and in good academic standing, may enter the RN to BSN Completion program.
5. Must have attained a minimum GPA of 2.5 from an accredited associate degree nursing program or diploma program in nursing.

**Note:** Admission to the University does not ensure admission to the nursing program. The number of students admitted is limited by the availability of instructional resources and clinical learning sites. Each applicant is reviewed individually. Any falsification of application information will result in denial of admission or removal from the program.

### **Requirements for All Baccalaureate Degree Nursing Students Admitted to the Program**

Once students are admitted to the program, and before beginning any nursing courses, students are responsible for completing the following requirements:

1. Students must possess current certification in Basic Life Support (American Red Cross, CPR Professional Rescue or American Heart Association Healthcare Provider level).
2. Students must complete and have on file with the University Health Service Office a current medical/physical form, immunization records form, and the Hepatitis B vaccination form. Students must possess current immunizations and annual TB (PPD) test, and provide verification of Hepatitis B inoculation or refusal thereof.

*(Continued on the following page)*

3. A fee for liability insurance which will be charged through the University Bursar's Office.
4. Any costs for necessary health care will be the responsibility of the student. Therefore, students are strongly urged to maintain health insurance coverage.
5. Additional criminal history documents and/or screenings may be required based on the changing policies of the clinical agencies.

**Standards for Progression and Graduation**

1. All required science courses *must* be successfully completed (completion with a grade of C or better) concurrently or prior to the recommended course sequence.
2. Students may repeat a required academic course one time in order to raise the grade to a C and maintain an overall GPA of at least 2.0
3. Nursing students must achieve a minimum grade of C in all science and nursing courses and maintain a grade point average (GPA) of 2.0 each semester. Failure to meet this requirement will result in withdrawal from the nursing program at the end of the semester.
4. If the student's average is at least 2.0, but the student has earned a grade less than a C in required science and/or nursing courses, the student must withdraw from the nursing program at the end of the semester. The student may apply for readmission to the nursing program for the following year.
5. If the semester average falls below 2.0 and the student has earned a grade less than C in required science and/or nursing courses, the student will be required to enroll in one semester of General Studies. Failure to make up all deficiencies during this semester of General Studies will result in denial of readmission to the nursing program.
6. When students are enrolled in a nursing course that has a corequisite and earn a grade less than a C in the nursing course, students *may* complete the remaining nursing corequisite during the current semester.
7. Students may only be readmitted to the nursing program one time. If unsuccessful in the second attempt, students cannot be readmitted to this nursing program.
8. Students must comply with student handbook, clinical facilities, college catalog, and syllabi rules/regulations.

		Credit Hours	<i>Recommended Sequence of Courses For A.S. to B.S.</i>
<b>Major Program Requirements</b>		<b>82</b>	
FACS 206	Fundamentals of Nutrition .....	3	(This sequence assumes any necessary developmental requirements have been met.)
LFSC 112	Anatomy and Physiology II .....	2	
LFSC 112L	Anatomy and Physiology Laboratory II .....	1	
LFSC 210	Microbiology .....	2	
LFSC 210L	Microbiology Laboratory.....	2	
MATH 110	Statistics -or-		
HCMG 311	Biomedical & Managerial Statistics .....	3	
NURS 100	Nursing Fundamentals .....	8	
NURS 130	Maternal-Newborn Nursing .....	4	
NURS 150	Medical-Surgical Nursing I .....	4	
NURS 200	Medical-Surgical Nursing II.....	4	
NURS 230	Pediatric Nursing .....	4	
NURS 240	Psychosocial Nursing .....	4	
NURS 250	Medical-Surgical Nursing III .....	4	
NURS 260	Issues and Trends .....	2	
NURS 300	Professional Nursing .....	3	
NURS 330	Physical Assessment.....	3	
NURS 360	Introduction to Nursing Research .....	3	
NURS 370	Pathophysiology and Pharmacology in Nursing.....	7	
NURS 380	Gerontology Nursing .....	3	
NURS 460	Community Health Nursing .....	4	
NURS 475	Nursing Leadership and Management .....	4	
NURS 485	Senior Concentration in Nursing .....	4	
NURS 490	Capstone Experience in Baccalaureate Nursing .....	4	
			<b>Semester I</b>
			CHEM 101 .....3
			CHEM 101L..... 1
			ENGL 101 .....3
			LFSC 111 .....2
			LFSC 111L..... 1
			NURS 100.....8
			Total Hours: 18
			<b>Semester II</b>
			ENGL 102 .....3
			LFSC 112 .....2
			LFSC 112L..... 1
			MATH 102 .....3
			NURS 130 .....4
			NURS 150 .....4
			Total Hours: 17
			<b>Semester III</b>
			LFSC 210 .....2
			LFSC 210L..... 2
			NURS 200 .....4
			NURS 230 .....4
			PSYC 142 .....3
			SPCH 143/148(W) ..... 3
			Total Hours: 18

(Continued on the following page)

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>		<b>9</b>
ENGL 101	English Composition I .....	3
MATH 102	College Algebra (or higher mathematics).....	3
SPCH 143	Speech -or-	
SPCH 148	Interpersonal Communication .....	3

*The Reading and Speaking Intensive requirements may be met by NURS 260.*

*The Writing Intensive requirement may be met by NURS 260 or SPCH 148.*

*The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>		<b>33</b>
CHEM 101	Elementary Organic Chemistry and Biochemistry .....	3
CHEM 101L	Elementary Organic Chemistry and Biochemistry Laboratory.....	1
ENGL 102	English Composition II .....	3
LFSC 111	Anatomy and Physiology I .....	2
LFSC 111L	Anatomy and Physiology Laboratory I.....	1
PFWL 100	Lifetime Fitness/Wellness .....	2
PHIL 313	Contemporary Ethical Issues .....	3
PSYC 142	General Psychology .....	3
SOCL 151	Principles of Sociology .....	3
History	Elective (Social Science Core) .....	3
	Humanities Elective – Common Core List .....	3
	Humanities Elective – Common OR Broad Core List.....	3
	Diverse Cultures/Global Perspectives Elective .....	3

*The Computer Skills requirement is met by Computers Across the Curriculum.*

<b>Semester IV</b>	
NURS 240 .....	4
NURS 250 .....	4
NURS 260(R/W/S) .....	2
PFWL 100 .....	2
SOCL 151 .....	3
Humanities Elec .....	3
Total Hours: 18	
<b>Semester V</b>	
MATH 110/HCMG 311 .....	3
NURS 300 .....	3
NURS 370 .....	7
Total Hours: 13	
<b>Semester VI</b>	
FACS 206 .....	3
NURS 330 .....	3
NURS 360 .....	3
NURS 380 .....	3
Total Hours: 12	
<b>Semester VII</b>	
NURS 460 .....	4
NURS 475 .....	4
PHIL 313 .....	3
Div Cul/G P Elec .....	3
Total Hours: 14	
<b>Semester VIII</b>	
NURS 485 .....	4
NURS 490 .....	4
History Elect .....	3
Hum Elec (Common/ Broad Core).....	3
Total Hours: 14	

**NURSING 6250**  
**A Two-Year Program Leading to the A.S. Degree**

The aim of the nursing program is to prepare graduates who can function with competency to assess, plan, implement, direct and evaluate nursing care of individuals or groups of clients in a variety of settings. Graduates are eligible to write the State Board examination to earn licensure as a **registered nurse**.

**Indiana Code Section 39.IC 25-23-1-11 requires that any person who applies to the board for a license to practice as a registered nurse must not have (a) been convicted of a crime that has a direct bearing on the person's ability to practice competently; or (b) committed an act that would constitute grounds for a disciplinary sanction under IC 25-1-9. If applicable to you, see the Program Chairperson for further discussion.**

The Associate Degree Nursing Program is accredited by the Indiana State Board of Nursing and the National League for Nursing Accrediting Commission (NLNAC). Information on accreditation status may be obtained by contacting the NLNAC. They may be contacted at the following address: NLNAC, Inc., 61 Broadway, 33<sup>rd</sup> Floor, New York, NY 10006 (1-800-669-1656, Extension 153, or [www.nlnac.org](http://www.nlnac.org)).

The curriculum provides a balance between general education and nursing. The nursing faculty provides instruction and guidance in the College Learning Laboratory, hospitals, community mental health centers, community agencies, and other healthcare facilities. Transportation related to clinical experiences is the responsibility of the student.

### **Program Outcomes**

At the completion of the Associate Degree Nursing Program, the graduate will:

1. Utilize critical thinking in the implementation of the nursing process to provide safe, evidence-based and culturally competent care to clients in various settings.
2. Effectively communicate by sharing accurate information through various technologies thus promoting multidisciplinary team and client collaboration to provide effective nursing care.
3. Demonstrate caring in order to foster a therapeutic environment.
4. Provide health education for clients to promote adaptation to health changes and achieve optimal levels of wellness.
5. Incorporate legal and ethical guidelines into nursing practice to demonstrate professionalism and adherence to registered nursing practice standards.
6. Communicate a commitment to lifelong learning to maintain professional growth and career mobility.

### **Admission Requirements**

The selection process for Vincennes University's Nursing program is based on the premise that student selection is vital to student success in the program and on the NCLEX licensing exam. The standards of selection will also contribute to the quality of care administered by graduates of this program. In order to complete this program successfully, students must be well motivated and have an academic background sufficient to succeed in the curriculum. A limited number of students will be accepted, with cancellations being filled from a waiting list. The number of students admitted to the nursing program is limited by the availability of instructional resources and clinical learning sites. Due to the high number of applicants for this program, selection is competitive in nature and involves review of the following criteria by the Nursing Program's Admission Committee. Each applicant is reviewed individually. Any falsification of application information will result in denial of admission or removal from the program. *Compliance with all criteria does not guarantee acceptance.*

### ***Basic Admission Requirements for All Applicants***

All applicants must meet the following:

1. Meet admission requirements of the University.
2. Qualify for placement into MATH 101 as determined by the Vincennes University Accuplacer Test. Two semesters of high school algebra are strongly advised.
3. Qualify for exemption from READ 011 as determined by placement test scores (e.g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University).
4. Qualify for placement into ENGL 101 as determined by placement test scores (e.g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University).

*(Continued on following page.)*

5. Complete two semesters of high school chemistry (Note: integrated chemistry-physics course does not meet this requirement) with a grade of “C” or better *or* complete CHEM 100/100L Elementary Chemistry or CHEM 103/103L Introduction to Chemistry or CHEM 111 Chemistry I with a grade of C or better.
6. Achieve a high school diploma (students may apply to the program during their senior year of high school) or achieve a minimum average standard score of 500 on the General Education Development (GED) test.
7. Possess physical and mental health acceptable for performance in the occupation as evidenced by examination by a licensed physician.

If students do not meet the “**Basic Admission Requirements**” criteria, they will be advised to take general education courses before applying to the nursing program in order to achieve these basic admission requirements. (See the *General Education/Previous College Courses Standard* below.)

For students who have previous college experience, admission to the nursing program is based on meeting the “*General Education/Previous College Courses Standard*”, in addition to the “*Basic Admission Requirements*”.

### **General Education/Previous College Courses Standard**

1. Applicant must have completed all developmental courses as required by applicant’s Accuplacer test results.
2. Applicant must have nine hours of college courses (100 level or above) with a 2.7 grade point average (GPA), with no grade lower than a C. These nine hours must come from the Associate Degree Nursing Program General Education Requirements (non-nursing courses). CHEM 100/100L and/or HIMT 110 Medical Terminology may also be used as part of the nine credit hours.
3. The GPA will be calculated using only the courses from the A.D.N. Program General Education Requirements and any applicable chemistry grades.
4. If a student receives a grade of D or F in a required general education course, then the course may be repeated only one time to raise the grade to a C or better.
5. Applicant may repeat an academic course only one time in order to raise the GPA to 2.7 minimum.
6. A recent placement test may be requested by the Nursing Admissions Committee.
7. Transfer credits: The registrar will determine if credit is to be granted for courses taken at other institutions of higher education.
8. Time limit on previously completed courses:
  - a) Only MATH 101 Intermediate Algebra; LFSC 111/111L Anatomy and Physiology I; LFSC 112/112L Anatomy and Physiology II; and LFSC 210/210L Microbiology taken less than seven years prior to admission to the nursing program will be considered for credit. Students seeking credit for MATH 101 Intermediate Algebra that was taken longer than seven years prior to admission to the nursing program may elect to take the University General Education Math test and receive a score of EA 63 or higher, take the CLEP exam, or enroll in the course and seek early completion.
  - b) CHEM 101/101L Organic and Biochemistry: No time limit.
  - c) Principles of Sociology, General Psychology, Speech and Interpersonal Communication: courses taken less than fifteen years prior to admission to the nursing program will be considered for credit. Exceptions will be made for applicants with a previous college degree.
9. Possess physical and mental health acceptable for performance in the occupation as evidenced by examination by a licensed physician.

**Once all requirements have been met, the student is advised to submit the completed admissions application to the Vincennes University Admissions Office.**

The Nursing Admissions Committee will review the completed application. If the student meets the admission requirements/standards, then the student will be asked to submit a criminal history report\*, with the fee paid by the student. Full admission into the Associate Degree Nursing Program is contingent upon a satisfactory criminal history report as determined by the Nursing Admissions Committee.

*(Continued on following page.)*

### **\*Criminal History Report**

The Associate Degree Nursing program is intended to provide the education necessary for students to become registered nurses. As part of the licensing process, applicants are required to submit information regarding any criminal history to the Indiana State Board of Nursing. Consequently, all applicants meeting academic requirements must release criminal background information to the Vincennes University Nursing Program prior to admission, per Department of Nursing protocol. The background check will be at the applicant's expense.

A prior conviction or prior criminal activity will not automatically bar the applicant from admission to the nursing program. The applicant should provide a detailed explanation of the offenses or convictions, including the location, the convictions, the dates, and the court disposition. The Nursing Admissions Committee will review the case and make a determination regarding admission to the Vincennes University Nursing Program. If the committee denies the applicant's admission into the Nursing Program, the applicant may request in writing an appeal in accordance with the University's Student Grievance Policy.

### **Requirements for All Associate Degree Nursing Students Admitted to the Program**

Once students are admitted to the program and before beginning any nursing courses, students admitted to the program are responsible for completing the following requirements:

1. Students must possess current certification in Basic Life Support (American Red Cross, CPR Professional Rescue or American Heart Association Healthcare Provider level).
2. Students must complete and have on file with the University Health Service Office a current medical/physical form, immunization records form, and the Hepatitis B vaccination form. Students must possess current immunizations and annual TB (PPD) test, and provide verification of Hepatitis B inoculation or refusal thereof.
3. A fee for liability insurance will be charged through the University Bursar's Office.
4. Any costs for necessary health care will be the responsibility of the student. Therefore, students are strongly urged to maintain health insurance coverage.
5. Additional criminal history documents and/or screenings may be required based on the changing policies of the clinical agencies.

### **Standards for Progression and Graduation**

1. All required science courses *must* be successfully completed concurrently with or prior to the recommended course sequence.
2. MATH 101 must be completed prior to Semester III.
3. General Psychology, English Composition II and Speech or Interpersonal Communication must be successfully completed prior to Semester IV of the nursing courses.
4. Students may repeat a required academic course one time.
5. Nursing students must achieve a minimum grade of *C* in all required courses and maintain a grade point average (GPA) of 2.0 each semester. Failure to meet this requirement will result in withdrawal from the nursing program at the end of the semester.
  - a. If the semester average falls below 2.0 and the student has earned a grade less than *C* in a required course, the student will be required to enroll in one semester of General Studies. Failure to raise the GPA during this semester of General Studies may result in denial of readmission to the nursing program.
  - b. When students are enrolled in a nursing course that has a corequisite and earn a grade less than a *C*, students *may* complete the remaining nursing corequisite during the current semester.
  - c. If a student is unsuccessful in the Associate Degree Nursing (ADN) program twice, that student may have the option of completing the program of Practical Nursing, if eligible. Then, if eligible, that person, upon becoming a Licensed Practical Nurse, may be admitted into the ADN-RN concentration for one time only.
  - d. Each application is reviewed individually by a review committee of the Nursing Department Admissions Committee.
  - e. Students having extenuating circumstances may petition the nursing review committee for retention in the program.
6. Nursing students who receive an *F* in a nursing course will not be eligible for readmission to the nursing program regardless of GPA.

(Continued on following page.)

## Readmission Standards

Readmission standards apply to any student who has enrolled in and attended a nursing course, dropped the nursing course, and/or has not met the *Standards for Progression and Graduation* as listed above.

1. Students may be readmitted to the nursing program limited to one time.
2. Applications for readmission must be obtained from and returned to the Health Science and Human Performance Division Office, Attention: Associate Degree Nursing by the deadline established by the program.
3. Students seeking to reenter the program at the point in which they withdrew, must reenter the program within one year. Otherwise, the student may apply for readmission to begin the program in its entirety.
4. Qualified applicants will be readmitted on a space-available basis.
5. Each application is reviewed individually by the Nursing Department Admissions Committee.
6. Students who believe they have extenuating circumstances to these readmission standards, may write a letter to the Nursing Department Admissions Committee to explain their situation, following the University Grievance Policy.

	Credit Hours
<b>Major Program Requirements</b>	<b>41</b>
LFSC 112 Anatomy and Physiology II .....	2
LFSC 112L Anatomy and Physiology Laboratory II .....	1
LFSC 210 Microbiology .....	2
LFSC 210L Microbiology Laboratory.....	2
NURS 100 Nursing Fundamentals .....	8
NURS 130 Maternal-Newborn Nursing .....	4
NURS 150 Medical-Surgical Nursing I .....	4
NURS 200 Medical-Surgical Nursing II .....	4
NURS 230 Pediatric Nursing .....	4
NURS 240 Psychosocial Nursing .....	4
NURS 250 Medical-Surgical Nursing III .....	4
NURS 260 Issues and Trends .....	2

## General Education Requirements

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition I .....	3
MATH 101 Intermediate Algebra (or higher mathematics) .....	3
SPCH 143 Speech -or-	
SPCH 148 Interpersonal Communication .....	3

*The Reading and Speaking Intensive requirements may be met by NURS 260.*

*The Writing Intensive requirement may be met by NURS 260 or SPCH 148.*

*The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>	<b>21</b>
CHEM 101 Elementary Organic Chemistry and Biochemistry .....	3
CHEM 101L Elementary Organic Chemistry and Biochemistry Laboratory.....	1
ENGL 102 English Composition II .....	3
LFSC 111 Anatomy and Physiology I .....	2
LFSC 111L Anatomy and Physiology Laboratory I.....	1
PFWL 100 Lifetime Fitness/Wellness .....	2
PSYC 142 General Psychology .....	3
SOCL 151 Principles of Sociology .....	3
Humanities Elective – Common Core List .....	3

*The Computer Skills requirement is met by Computers Across the Curriculum.*

<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
CHEM 101 .....	3
CHEM 101L.....	1
ENGL 101 .....	3
LFSC 111 .....	2
LFSC 111L.....	1
NURS 100.....	8
Total Hours:	18
<b>Semester II</b>	
ENGL 102 .....	3
LFSC 112 .....	2
LFSC 112L.....	1
MATH 101 .....	3
NURS 130 .....	4
NURS 150.....	4
Total Hours:	17
<b>Semester III</b>	
LFSC 210 .....	2
LFSC 210L.....	2
NURS 200 .....	4
NURS 230 .....	4
PSYC 142 .....	3
SPCH 143/148(W) .....	3
Total Hours:	18
<b>Semester IV</b>	
NURS 240 .....	4
NURS 250 .....	4
NURS 260(R/W/S) .....	2
PFWL 100 .....	2
SOCL 151 .....	3
Humanities Elec.....	3
Total Hours:	18

**NURSING**  
**ADN-RN COMPLETION CONCENTRATION FOR LICENSED PRACTICAL NURSES 6252**  
**A Two-Year Program Leading to the A.S. Degree**

Entrance into the ADN-RN Completion program will permit students to obtain credit for the first-year Associate Degree Nursing Program courses and enter the second year of the program. Graduates of the Associate Degree Nursing Program earn an Associate of Science in Nursing and are eligible to write the State Board examination to earn licensure as a Registered Nurse (RN).

**Indiana Code Section 39.IC 25-23-1-11 requires that any person who applies to the board for a license to practice as a registered nurse must not have (a) been convicted of a crime that has a direct bearing on the person's ability to practice competently; or (b) committed an act that would constitute grounds for a disciplinary sanction under IC 25-1-9. If applicable to you, see the Program Chairperson for further discussion.**

The ADN-RN Completion program for the Licensed Practical Nurses program is accredited by the Indiana State Board of Nursing and the National League for Nursing Accrediting Commission (NLNAC). Information on accreditation status may be obtained by contacting the NLNAC. They may be contacted at the following address: National League for Nursing Accrediting Commission (NLNAC, Inc.), 61 Broadway, 33<sup>rd</sup> Floor, New York, NY 10006 (1-800-669-1656, Extension 153, or [www.nlnac.org](http://www.nlnac.org)).

The curriculum provides a balance between general education and nursing. The nursing faculty provides instruction and guidance in the College Learning Laboratory, hospitals, community mental health centers, community agencies, and other healthcare facilities. Transportation related to clinical experiences is the responsibility of the student. Applicants are accepted into the ADN-RN Completion program only one time annually.

#### **Program Outcomes**

At the completion of the Associate Degree Nursing Program, the graduate will:

1. Utilize critical thinking in the implementation of the nursing process to provide safe, evidence-based and culturally competent care to clients in various settings.
2. Effectively communicate by sharing accurate information through various technologies thus promoting multidisciplinary team and client collaboration to provide effective nursing care.
3. Demonstrate caring in order to foster a therapeutic environment.
4. Provide health education for clients to promote adaptation to health changes and achieve optimal levels of wellness.
5. Incorporate legal and ethical guidelines into nursing practice to demonstrate professionalism and adherence to registered nursing practice standards.
6. Communicate a commitment to lifelong learning to maintain professional growth and career mobility.

#### **Admission Requirements**

##### ***Basic Requirements***

All applicants must meet the following basic admission requirements.

1. Meet admission requirements of the University.
2. Possess physical and mental health acceptable for performance in the occupation as evidenced by examination by a licensed physician.

**Note:** Admission to the University does not ensure admission to the nursing program. The number of students admitted is limited by the availability of instructional resources and clinical learning sites. In addition to the basic requirements, students must meet standards under 1, 2 and 3 below to be eligible for admission to the Associate Degree Nursing Program. Each applicant is reviewed individually. Any falsification of application information will result in denial of admission or removal from the program.

##### ***Program Admission Requirements***

1. The University's policy for acceptance of other academic credit and degree requirements for graduation must be met. Early completion credit for second year nursing courses will not be approved.
2. Have a cumulative GPA of 2.7 or higher.
3. Hold a valid Practical Nursing License.

*(Continued on the following page)*



4. Only MATH 101 Intermediate Algebra; LFSC 111/111L Anatomy and Physiology I; LFSC 112/112L Anatomy and Physiology II; and LFSC 210/210L Microbiology taken less than seven years prior to admission to the nursing program will be considered for credit.
  - a) Students seeking credit for MATH 101 Intermediate Algebra that was taken longer than seven years prior to admission to the nursing program may elect to take the University General Education math test and receive a cut score of 63 or higher, or take the CLEP exam.
  - b) Students seeking credit for MATH 101 Intermediate Algebra; LFSC 111/111L Anatomy and Physiology I; LFSC 112/112L Anatomy and Physiology II; or LFSC 210/210L Microbiology that was taken longer than seven years prior to admission to the nursing program may elect to enroll in the course and seek early completion.
  - c) There is no time limit on CHEM 101/101L Organic and Biochemistry.
5. Only Principles of Sociology, General Psychology, Speech and Interpersonal Communication courses taken less than fifteen years prior to admission to the school of nursing will be considered for credit.
6. NURS 171 Transitions must be completed in the academic year immediately preceding entry into the second year nursing courses.

**Note:** Each applicant is reviewed individually. Any falsification of application information will result in denial of admission or removal from the program.

**Once all requirements have been met, the student is advised to submit the completed admissions application to the Vincennes University Admissions Office.**

The Nursing Admissions Committee will review the completed application. If the student meets the admission requirements/standards, then the student will be asked to submit a criminal history report\*, with the fee paid by the student. Full admission into the Associate Degree Nursing Program is contingent upon a satisfactory criminal history report as determined by the Nursing Admissions Committee.

**\*Criminal History Report**

The Associate Degree Nursing program is intended to provide the education necessary for students to become registered nurses. As part of the licensing process, applicants are required to submit information regarding any criminal history to the Indiana State Board of Nursing. Consequently, all applicants meeting academic requirements must release criminal background information to the Vincennes University Nursing Program prior to admission, per Department of Nursing protocol. The background check will be at the applicant's expense.

A prior conviction or prior criminal activity will not automatically bar the applicant from admission to the nursing program. The applicant should provide a detailed explanation of the offenses or convictions, including the location, the convictions, the dates, and the court disposition. The Nursing Admissions Committee will review the case and make a determination regarding admission to the Vincennes University Nursing Program. If the committee denies the applicant's admission into the Nursing Program, the applicant may request in writing an appeal in accordance with the University's Student Grievance Policy.

**Requirements for All Associate Degree Nursing Students Admitted to the Program**

Once students are admitted to the program and before beginning any nursing courses, students admitted to the program are responsible for completing the following requirements:

1. Students must possess current certification in Basic Life Support (American Red Cross, CPR Professional Rescue or American Heart Association Healthcare Provider level).
2. Students must complete and have on file with the University Health Service Office a current medical/physical form, immunization records form, and the Hepatitis B vaccination form. Students must possess current immunizations and annual TB (PPD) test, and provide verification of Hepatitis B inoculation or refusal thereof.
3. A fee for liability insurance will be charged through the University Bursar's Office.
4. Any costs for necessary health care will be the responsibility of the student. Therefore, students are strongly urged to maintain health insurance coverage.
5. Additional criminal history documents and/or screenings may be required based on the changing policies of the clinical agencies.

*(Continued on the following page)*

## Standards for Progression and Graduation

Upon completion of NURS 171 Transitions (5 credit hours) with a C or better, the student will receive advanced placement credit for NURS 170 (11 credit hours) in Associate Degree Nursing. (There is no tuition fee for these 11 credits.)

Students must successfully complete (grades of C or better) all 19 general education hours from the first level Associate Degree Nursing curriculum (CHEM 101/101L, LFSC 111/111L, LFSC 112/112L, ENGL 102 and MATH 101) prior to beginning the second level ADN courses (NURS 200 and NURS 230).

The 16 total credits for NURS 171/170 plus the 19 general education hours, totaling 35 credit hours equals to the first year of the standard Associate Degree Nursing 6250 program curriculum plan.

Once admitted to the Associate Degree Nursing Program, students will adhere to the same standards as all Associate Degree Nursing students. Please refer to these standards for information on progression and graduation requirements.

## Readmission Standards

Readmission standards apply to any student who has enrolled in and attended a nursing course, dropped the nursing course, and/or has not met the *Standards for Progression and Graduation* as listed above.

1. Students may be readmitted to the nursing program limited to one time.
2. Applications for readmission must be obtained from and returned to the Health Science and Human Performance Division Office, Attention: Associate Degree Nursing by the deadline established by the program.
3. Students seeking to reenter the program at the point in which they withdrew, must reenter the program within one year. Otherwise, the student may apply for readmission to begin the program in its entirety.
4. Qualified applicants will be readmitted on a space-available basis.
5. Each application is reviewed individually by the Nursing Department Admissions Committee.
6. Students who believe they have extenuating circumstances to these readmission standards, may write a letter to the Nursing Department Admissions Committee to explain their situation, following the University Grievance Policy.

		Credit Hours
<b>Major Program Requirements</b>		<b>41</b>
LFSC 112	Anatomy and Physiology II .....	2
LFSC 112L	Anatomy and Physiology Laboratory II .....	1
LFSC 210	Microbiology .....	2
LFSC 210L	Microbiology Laboratory.....	2
NURS 170	LPN Experiential Credit .....	11
NURS 171	Transitions .....	5
NURS 200	Medical-Surgical Nursing II.....	4
NURS 230	Pediatric Nursing .....	4
NURS 240	Psychosocial Nursing .....	4
NURS 250	Medical-Surgical Nursing III.....	4
NURS 260	Issues and Trends .....	2

## General Education Requirements

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>		<b>9</b>
ENGL 101	English Composition I .....	3
MATH 101	Intermediate Algebra (or higher mathematics) .....	3
SPCH 143	Speech -or-	
SPCH 148	Interpersonal Communication .....	3

*The Reading and Speaking Intensive requirements may be met by NURS 260.*

*The Writing Intensive requirement may be met by NURS 260 or SPCH 148.*

*The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)	
<b>Pre-Admission <sup>1</sup></b>	
CHEM 101 .....	3
CHEM 101L.....	1
ENGL 101 .....	3
ENGL 102 .....	3
LFSC 111 .....	2
LFSC 111L.....	1
LFSC 112 .....	2
LFSC 112L.....	1
MATH 101 .....	3
Total Hours: 19	
<b>Entry Level</b>	
NURS 170 .....	11
NURS 171 .....	5
Total Hours: 16	

(Continued on the following page)

<sup>1</sup> See A.D. Nursing Standards for Progression and Graduation for exceptions to recommended course sequence.

**Liberal Education Core**

	<b>21</b>
CHEM 101 Elementary Organic Chemistry and Biochemistry .....	3
CHEM 101L Elementary Organic Chemistry and Biochemistry Laboratory....	1
ENGL 102 English Composition II.....	3
LFSC 111 Anatomy and Physiology I .....	2
LFSC 111L Anatomy and Physiology Laboratory I.....	1
PFWL 100 Lifetime Fitness/Wellness .....	2
PSYC 142 General Psychology .....	3
SOCL 151 Principles of Sociology .....	3
Humanities Elective – Common Core List .....	3
	<b>71</b>

*The Computer Skills requirement is met by Computers Across the Curriculum.*

Semester III	
LFSC 210 .....	2
LFSC 210L.....	2
NURS 200 .....	4
NURS 230 .....	4
PSYC 142 .....	3
SPCH 143/148(W).....	3
Total Hours:	18
Semester IV	
NURS 240 .....	4
NURS 250 .....	4
NURS 260(R/W/S).....	2
PFWL 100 .....	2
SOCL 151 .....	3
Humanities Elec.....	3
Total Hours:	18



**NURSING, PRACTICAL 6350**  
**A One-Year Program Leading to a Certificate of Graduation**

The Practical Nursing Program is accredited by the Indiana State Board of Nursing and the National League for Nursing Accrediting Commission (NLNAC). The purpose of the program is to provide an approved educational program to prepare students to be eligible to take the National Council Licensure Examination for Practical Nurses (NCLEX-PN) to become Licensed Practical Nurses (LPN).

This program is two semesters and one summer session in length, admitting one class annually in August. Through theory and practice, this program is designed to enable students to develop a knowledge of disease processes and prevention and the ability to provide restorative nursing and assist the individual to maintain an optimum level of wellness. Graduates provide nursing care to clients in situations of varying complexity under the supervision of and in concert with the professional nurse and/or physician.

Students receive laboratory instruction and guidance in college laboratory, acute and long-term care facilities and community agencies. Students are responsible for transportation related to clinical experiences.

Applicants are accepted to the Practical Nursing Program for the fall semester only. The Practical Nursing Program is accredited by the Indiana State Board of Nursing and the National League for Nursing Accrediting Commission (NLNAC). Information on accreditation status may be obtained by contacting the NLNAC. They may be contacted at the following address: NLNAC, Inc., 61 Broadway, 33rd Floor, New York, NY 10006 (1-800-669-1656, Extension 153, or [www.nlnac.org](http://www.nlnac.org)).

### **Program Outcomes**

Upon completion of the Practical Nursing Program, graduates will be able to:

1. Utilize critical thinking in the implementation of the nursing process in conjunction with other health team members to provide safe, evidence-based and culturally competent care to clients in various settings.
2. Effectively communicate by sharing accurate information through various technologies thus promoting multidisciplinary team and client collaboration to provide effective nursing care.
3. Demonstrate caring in order to foster a therapeutic environment.
4. Provide health education for clients under the direction of a registered nurse to promote adaptation to health changes and achieve optimal levels of wellness.
5. Incorporate legal and ethical guidelines into nursing practice to demonstrate professionalism and adherence to practical nursing practice standards.
6. Communicate a commitment to lifelong learning to maintain professional growth and career mobility.

### **Admission Requirements**

#### ***Basic Requirements***

All applicants must meet the following basic admission requirements.

1. Meet admission requirements of the University.
2. Possess physical and mental health acceptable for performance in the occupation as evidenced by examination by a licensed physician.

**Once all requirements have been met, the student is advised to submit the completed admissions application to the Vincennes University Admissions Office.**

The Nursing Admissions Committee will review the completed application. If the student meets the admission requirements/standards, then the student will be asked to submit a criminal history report\*, with the fee paid by the student. Full admission into the Practical Nursing Program is contingent upon a satisfactory criminal history report as determined by the Nursing Admissions Committee.

#### **\*Criminal History Report**

The Practical Nursing program is intended to provide the education necessary for students to become registered nurses. As part of the licensing process, applicants are required to submit information regarding any criminal history to the Indiana State Board of Nursing. Consequently, all applicants meeting academic requirements must release criminal background information to the Vincennes University Nursing Program prior to admission, per Department of Nursing protocol. The background check will be at the applicant's expense.

*(Continued on the following page)*

A prior conviction or prior criminal activity will not automatically bar the applicant from admission to the nursing program. The applicant should provide a detailed explanation of the offenses or convictions, including the location, the convictions, the dates, and the court disposition. The Nursing Admissions Committee will review the case and make a determination regarding admission to the Vincennes University Nursing Program. If the committee denies the applicant's admission into the Nursing Program, the applicant may request in writing an appeal in accordance with the University's Student Grievance Policy.

**Note:** Admission to the University does not ensure admission to the Practical Nursing Program. The number of students admitted is limited by the availability of instructional resources and clinical learning sites. In addition to the basic requirements, students must meet either the Direct Admission Requirements or the Alternative Admission Requirements as listed below. Any falsification of application information will result in denial of admission or removal from the program.

#### **Direct Admission Requirements**

1. Accredited high school graduation in the top half of the class or achievement of a minimum average standard score of 500 on the General Education Development (GED) Test.
2. Qualify for placement into MATH 101 as determined by the Vincennes University Accuplacer test.
3. Qualify for exemption from READ 011 as determined by placement test scores (e.g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University).
4. Qualify for placement into ENGL 101 as determined by placement test scores (e.g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University).
5. Each application is reviewed individually by a review committee of the Nursing Department Admissions Committee.

#### **Alternative Admission Requirements (for applicants not meeting Direct Admission Requirements)**

Applicants not meeting the above selected criteria for direct admission may be advised to enroll in 100 level or above general studies to meet these requirements using the following guidelines:

1. A practical nursing faculty advisor will recommend courses.
2. Applicants must complete nine hours of college courses (100 level or above) with a 2.3 grade point average (GPA), with no grade lower than a C, to be considered for admission. These nine hours must include ENGL 101.
3. Applicants may repeat an academic course one time in order to raise the grade to a C or better and to maintain a GPA of a minimum of 2.3. A current semester GPA less than 2.0 will exclude a candidate from admission.
4. Each application of the general studies candidates will be reviewed following the completion of the recommended course work with a grade of C or better. Only grades for completed courses will be considered for admission eligibility.
5. The registrar will determine if credit is to be granted for courses taken at other institutions of higher education.
6. Only MATH 012 Beginning Algebra; LFSC 111/111L Anatomy and Physiology I; LFSC 112/112L Anatomy and Physiology II; and LFSC 107/107L Essentials of Anatomy and Physiology taken less than seven years prior to admission to the Practical Nursing Program will be considered for credit.
  - a. Students seeking credit for MATH 012 Beginning Algebra that was taken longer than seven years prior to admission to the Practical Nursing Program may elect to take the University math placement test and receive cut scores of EA 40 or greater.
  - b. Students seeking credit for MATH 012 Beginning Algebra; LFSC 111/111L Anatomy and Physiology I; LFSC 112/112L Anatomy and Physiology II; or LFSC 107/107L Essentials of Anatomy and Physiology that was taken longer than seven years prior to admission to the nursing program may elect to enroll in the course and seek early completion. Exceptions will be made for applicants with a previous college degree.
7. Only General Psychology taken less than fifteen years prior to admission to the Practical Nursing Program will be considered for credit.
8. Each application is reviewed individually by a review committee of the nursing faculty members.
9. Applicants failing to meet the above criteria will be advised into another curriculum.

#### **Admission Procedure**

1. Applicants are to follow regular college admission procedure.
2. Results of the application data, transcripts, and pre-entrance test scores will be reviewed by the Nursing Admissions Committee. All applicants will be notified regarding their admission standing.

*(Continued on the following page)*

**Requirements for Practical Nursing Students**

1. Students must possess current certification in Basic Life Support (American Red Cross, CPR Professional Rescue/AED or American Heart Association Healthcare Provider level).
2. Students must possess current immunizations, annual TB (PPD) test, and provide verification of Hepatitis B inoculation or refusal thereof.
3. Prior to the beginning of the fall semester, students must complete and have on file with the University Health Service Office a medical/physical form, immunization records form, and the Hepatitis vaccination form.
4. A fee for the required liability insurance will be charged through the University Bursar's Office.
5. Any costs for necessary health care will be the responsibility of the student. Therefore, students are strongly urged to maintain health insurance coverage.

**Standards for Progression and Graduation**

1. Practical nursing students must achieve a minimum grade of C in each course for the current semester as a prerequisite for continuance in the program. Failure to meet this requirement will result in withdrawal from the Practical Nursing Program.
2. Clinical experience is evaluated as to "satisfactory" or "unsatisfactory" performance based on the criteria established by the program. If clinical laboratory performance is "unsatisfactory," a grade of F will be received in the course requiring the laboratory.
3. No students are admitted on probation. Students may be placed on probation within the current semester if academic and/or clinical performance is not satisfactory. No students will be allowed to enter the spring semester or summer session on probation.
4. An application for readmission following withdrawal from the program will be evaluated individually by the Nursing Department Admissions Committee.
5. Students who receive a grade of F in a required practical nursing course will not be eligible for readmission to the program regardless of GPA.
6. All required courses must be completed with a C or better concurrently or prior to the recommended course sequence.
7. Anatomy and Physiology I and II and Laboratories may be substituted for Essentials of Human Anatomy and Physiology and Laboratory; however, they must be completed with a C or better by the end of Semester I.

**Readmission Standards**

Each application is reviewed individually by a review committee of the Practical Nursing (PN) faculty members. All qualified applicants will be readmitted on a space available basis. Students have only one opportunity to be readmitted. Students may be readmitted to the program within one year. Students who believe they have extenuating circumstances may petition the Nursing Department Admissions Committee to seek readmission. In addition, applications for readmission must be completed and sent to the Admissions Office one semester prior to readmission.

	Credit Hours																	
LFSC 107 Essentials of Human Anatomy and Physiology -or-		<p><b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="background-color: #cccccc;">Semester I</th> </tr> </thead> <tbody> <tr> <td>LFSC 107 or 111/112 .....</td> <td style="text-align: right;">3-4</td> </tr> <tr> <td>LFSC 107L or 111L/112L .....</td> <td style="text-align: right;">1-2</td> </tr> <tr> <td>NURP 100 .....</td> <td style="text-align: right;">5</td> </tr> <tr> <td>NURP 105 .....</td> <td style="text-align: right;">6</td> </tr> <tr> <td>NURP 110 .....</td> <td style="text-align: right;">2</td> </tr> <tr> <td>PSYC 142 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Hours: 20-22</td> </tr> </tbody> </table>	Semester I		LFSC 107 or 111/112 .....	3-4	LFSC 107L or 111L/112L .....	1-2	NURP 100 .....	5	NURP 105 .....	6	NURP 110 .....	2	PSYC 142 .....	3	Total Hours: 20-22	
Semester I																		
LFSC 107 or 111/112 .....	3-4																	
LFSC 107L or 111L/112L .....	1-2																	
NURP 100 .....	5																	
NURP 105 .....	6																	
NURP 110 .....	2																	
PSYC 142 .....	3																	
Total Hours: 20-22																		
LFSC 111 Anatomy and Physiology I -and-																		
LFSC 112 Anatomy and Physiology II .....	3-4																	
LFSC 107L Essentials of Human Anatomy and Physiology Laboratory -or-																		
LFSC 111L Anatomy and Physiology Laboratory I -and-																		
LFSC 112L Anatomy and Physiology Laboratory II .....	1-2																	
NURP 100 Fundamentals of Nursing .....	5																	
NURP 105 Nursing I .....	6																	
NURP 110 Basic Pharmacology .....	2																	
NURP 150 Nursing II .....	8																	
NURP 155 Geriatric Nursing .....	3																	
NURP 160 Nursing of Children .....	5																	
NURP 165 Personal and Vocational Issues .....	2																	
NURP 200 Nursing III .....	4																	
NURP 205 Care of Mother and Newborn .....	5																	
PSYC 142 General Psychology .....	3																	

<b>Semester II</b>	
NURP 150 .....	8
NURP 155 .....	3
NURP 160 .....	5
NURP 165 .....	<u>2</u>
Total Hours:	18
<b>Summer (8 weeks)</b>	
NURP 200 .....	4
NURP 205 .....	<u>5</u>
Total Hours:	9

**Indiana Code Section 39.IC 25-23-1-12 requires that any person who applies to the board for a license to practice as a licensed practical nurse must not have (a) been convicted of a crime that has a direct bearing on the person's ability to practice competently; or (b) committed an act that would constitute a ground for a disciplinary sanction under IC 25-1-9. If applicable to you, see the Program Chairperson for further discussion.**

**OFFICE ACCOUNTANT TRAINING CERTIFICATE 5252**  
**A Certificate of Program Completion**

This program provides students with specific training as needed in an office setting. The focus is on the technical skills to successfully administer the receptionist/bookkeeper functions for a small office. This certificate would also provide a basis for continuing study toward the A.A.S. degree in Accounting.

	<b>Credit Hours</b>	
ACCT 140 Introduction to General Ledger/Inventory .....	1	<p style="text-align: center;"><i><b>Recommended Sequence of Courses</b></i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester I</b></p> <p>ACCT 140 .....1  ACCT 141 .....1  ACCT 142 .....1  OADM 131 .....1  OADM 132 .....1  OADM 133 .....1  Total Hours: 6</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester II</b></p> <p>ACCT 143 .....1  ACCT 291 or  MGMT 270 .....3  OADM 151 .....1  OADM 152 .....1  Total Hours: 6</p>
ACCT 141 Introduction to Accounts Payable .....	1	
ACCT 142 Introduction to Accounts Receivable .....	1	
ACCT 143 Introduction to Payroll .....	1	
ACCT 291 Accounting Software Applications -or-		
MGMT 270 Leadership and Group Dynamics .....	3	
OADM 131 Introduction to Word.....	1	
OADM 132 Introduction to PowerPoint .....	1	
OADM 133 Introduction to Excel.....	1	
OADM 151 Office Procedures and Business Machines .....	1	
OADM 152 Communication and Office Etiquette.....	1	
	<b>12</b>	

**NOTE:** All students must satisfy the University’s minimal requirements through either placement tests or placement in ENGL 009 or 011, READ 009 and 011 and MATH 109.



**PARALEGAL 7600**  
**A Two-Year Program Leading to the A.S. Degree**

This program is approved by the American Bar Association. Graduates, without further education, may seek employment as paralegals throughout the United States in private and public law offices, corporate offices, government offices (federal and state), and private companies. Job market assistance and evaluation is available to all graduates. Graduates may pursue further education toward ultimate completion of a baccalaureate degree and of law school. The unauthorized practice of law carries severe civil (and, in some states, criminal) penalties. Paralegals are individuals, qualified by education, training or work experience, who are employed or retained by a lawyer, law office, corporation, governmental agency or other entity and who perform specifically delegated substantive legal work for which a lawyer is responsible.

<b>Major Program Requirements</b>	<b>Credit Hours</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
	<b>36-38</b>	
PARA 100 Paralegal Profession and Ethics .....	3	
PARA 130 Land Transactions .....	3	
PARA 140 Criminal Law and Procedure .....	3	
PARA 150 Investigation and Tort Law .....	3	
PARA 160 Civil Procedures .....	3	
PARA 170 The Paralegal in the Business World .....	3	
PARA 180 Law Office Management .....	3	
PARA 215 Legal Research and Writing .....	3	
PARA 220 Probate Law .....	3	
PARA 230 Family Law .....	3	
PARA 240 Debtor-Creditor and Bankruptcy Law.....	3	
PARA 270 Legal Internship <sup>1</sup> .....	0-2	
PARA 290 Research/Professional Seminar .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I -or-		
ENGL 112 Rhetoric and Research .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech -or-		
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading Intensive requirement may be met by PARA 215.</i>		
<i>The Writing Intensive requirement may be met by PARA 215 or SPCH 148.</i>		
<i>The Speaking Intensive requirement may be met by PARA 290.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>	<b>21</b>	
ENGL 102 English Composition II <sup>2</sup> .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
Laboratory Science Elective – Common Core List .....	4	
Humanities Elective – Common Core List .....	3	
Social Science Electives – Core List .....	6	
Humanities or Science/Mathematics Elective – Broad Core List.....	3	
<i>Computer Skills are enhanced by PARA 215.</i>		
<b>66-68</b>		

<b>Semester I</b>	
ENGL 101/112 .....	3
PARA 100 .....	3
PARA 140 .....	3
PARA 150 .....	3
SPCH 143/148(W) .....	3
Total Hours:	15
<b>Semester II</b>	
ENGL 102 .....	3
PARA 130 .....	3
PARA 160 .....	3
PARA 170 .....	3
PARA 180 .....	3
Social Science Elec. ....	3
Total Hours:	18
<b>Semester III</b>	
MATH 101 .....	3
PARA 215(R/W) .....	3
PARA 220 .....	3
PARA 240 .....	3
PFWL 100 .....	2
Humanities Elec. ....	3
Total Hours:	17
<b>Semester IV</b>	
PARA 230 .....	3
PARA 290(S) .....	3
Hum/Sci/Math Elective.....	3
Lab Science Elec.....	4
Social Science Elec. ....	3
Total Hours:	16

Paralegals may not provide legal services directly to the public except as permitted by law.

<sup>1</sup> This optional internship is available to allow students an opportunity to gain valuable experience.

<sup>2</sup> Not required if student has successfully completed ENGL 112 Rhetoric and Research; however, another class may be required to reach the 62 hours required for graduation.

**PHARMACY TECHNICIAN 4831**  
**A One-Year Certificate of Program Completion.**

This certificate program is designed to provide students the basic skills and knowledge to begin work as a Pharmacy Technician. The course work will fulfill the Indiana training requirement for Pharmacy Technicians and prepare students to take the National Pharmacy Technician Exam.

	<b>Credit Hours</b>	<i>Recommended Sequence of Courses</i> (This sequence assumes any necessary developmental requirements have been met.)
CHEM 100 Elementary Chemistry -and-		<b>Semester I</b>
CHEM 100L Elementary Chemistry Laboratory -or-		
CHEM 101 Elementary Organic Chemistry and Biochemistry -and-		
CHEM 101L Elementary Organic Chemistry and Biochemistry Laboratory -or-		
CHEM 111 Chemistry I .....	4	<b>Semester I</b>  CHEM 100/100L -or- CHEM 101/101L -or- CHEM 111 ..... 4 ENGL 101 ..... 3 PHRM 105 ..... 3 PHRM 110 ..... 2 PHRM 120 ..... 3 Total Hours: 15  <b>Semester II</b>  PHRM 106 ..... 3 PHRM 111 ..... 3 PHRM 115 ..... 3 PHRM 125 ..... 2 SPCH 148 ..... 3 Total Hours: 14
ENGL 101 English Composition I .....	3	
PHRM 105 Pharmacology I .....	3	
PHRM 106 Pharmacology II.....	3	
PHRM 110 Dispensing Laboratory I .....	2	
PHRM 111 Dispensing Laboratory II .....	3	
PHRM 115 Pharmacy Law for Technicians.....	3	
PHRM 120 Pharmacy Calculations .....	3	
PHRM 125 Practicum .....	2	
SPCH 148 Interpersonal Communication .....	3	
—	<b>29</b>	

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011 and MATH 011, MATH 103, 105 or 109.

**PHARMACY TECHNICIAN 4832**  
**A Two-Year Program Leading to the A.A.S. Degree**

This program is designed to provide students the basic skills and knowledge to work as a Pharmacy Technician and assume entry-level management responsibilities in a pharmacy. The course work will fulfill the Indiana training requirement for Pharmacy Technicians and prepare students to take the National Pharmacy Technician Exam.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>44</b>	
ACCT 100 Basic College Accounting .....	3	<div style="text-align: center;"><i>Recommended Sequence of Courses</i></div> <div style="text-align: center; font-size: small;">(This sequence assumes any necessary developmental requirements have been met.)</div> <hr style="border: 0.5px solid black;"/> <div style="text-align: center; background-color: #e0e0e0; padding: 2px;"><b>Semester I</b></div> <div style="padding: 5px;">           ENGL 101 .....3            HIMT 110 .....3            MATH 101/              MATT 109(M) .....3            PHRM 120 .....3            PSYC 142 .....3  <div style="text-align: right;">Total Hours: 15</div> </div> <hr style="border: 0.5px solid black;"/> <div style="text-align: center; background-color: #e0e0e0; padding: 2px;"><b>Semester II</b></div> <div style="padding: 5px;">           MGMT 100 .....3            MUSM 118/PHIL 212 ...3            PHRM 115(R) .....3            SPCH 148 .....3            Chemistry Requirement .....4  <div style="text-align: right;">Total Hours: 16</div> </div> <hr style="border: 0.5px solid black;"/> <div style="text-align: center; background-color: #e0e0e0; padding: 2px;"><b>Semester III</b></div> <div style="padding: 5px;">           ACCT 100 .....3            COMP 110 .....3            PFWL 100 .....2            PHRM 105 .....3            PHRM 110 .....2            Life Science Requirement .....3  <div style="text-align: right;">Total Hours: 16</div> </div> <hr style="border: 0.5px solid black;"/> <div style="text-align: center; background-color: #e0e0e0; padding: 2px;"><b>Semester IV</b></div> <div style="padding: 5px;">           HIST 140 .....3            PHRM 106(S) .....3            PHRM 111(W) .....3            PHRM 125 .....2            PHRM 200 .....3            Life Science Req .....3  <div style="text-align: right;">Total Hours: 17</div> </div>
CHEM 100 Elementary Chemistry -and-		
CHEM 100L Elementary Chemistry Laboratory -or-		
CHEM 101 Elementary Organic Chemistry and Biochemistry -and-		
CHEM 101L Elementary Organic Chemistry and Biochemistry Laboratory -or-		
CHEM 111 Chemistry I .....	4	
COMP 110 Introduction to Computer Concepts .....	3	
HIMT 110 Medical Terminology for Allied Health .....	3	
LFSC 108 Principles of Human Anatomy and Physiology I -and-		
LFSC 109 Principles of Human Anatomy and Physiology II -or-		
LFSC 111 Anatomy and Physiology I -and-		
LFSC 111L Anatomy and Physiology Laboratory I -and-		
LFSC 112 Anatomy and Physiology II -and-		
LFSC 112L Anatomy and Physiology Laboratory II.....	6	
MGMT 100 Introduction to Business .....	3	
PHRM 105 Pharmacology I.....	3	
PHRM 106 Pharmacology II.....	3	
PHRM 110 Dispensing Lab I.....	2	
PHRM 111 Dispensing Lab II.....	3	
PHRM 115 Pharmacy Law for Technicians.....	3	
PHRM 120 Pharmacy Calculations .....	3	
PHRM 125 Practicum .....	2	
PHRM 200 Pharmacy Management.....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra -or-		
MATT 109 Business Mathematics .....	3	
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading Intensive requirement may be met by PHRM 115.            The Writing Intensive requirement may be met by PHRM 111.            The Speaking Intensive requirement may be met by PHRM 106.            The Mathematics Intensive requirement may be met by MATH 101 or MATT 109.</i>		
<b>Liberal Education Core</b>	<b>11</b>	
HIST 140 American History II .....	3	
MUSM 118 Music Appreciation -or-		
PHIL 212 Introduction to Ethics.....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PSYC 142 General Psychology .....	3	
<i>Computer Skills are enhanced by PHRM 115.</i>		
		<b>64</b>

**PHYSICAL EDUCATION 3100**  
**A Two-Year Transfer Program Leading to the A.S. Degree<sup>1</sup>**

This program is designed for students who prefer to complete a broad non-specialized two-year transfer program in Physical Education. Program focus is upon providing a broad base of liberal core courses and professional preparation core courses, as well as some flexibility in course selection. This flexibility enhances the process of transfer to a four-year institution where the student may continue toward a liberal or a specialized Physical Education program such as teaching, sports medicine, sports studies, or exercise science. Students wishing to become a secondary school teacher should follow the Education--Physical Education Concentration (3104) program.

	Credit Hours
<b>Major Program Requirements</b>	<b>36</b>
ATTR 209 Introduction to Athletic Training .....	3
HLTH 201 Personal Health Science -or-	
HLTH 210 Community Health and Wellness .....	3
HLTH 211 First Aid .....	2
PHED 146 Weight Training for Sports and Fitness Conditioning .....	1
PHED 150 Foundations of Physical Education .....	3
PHED 212 Introduction to Exercise Science .....	3
PHED 225 Physical Fitness and Conditioning for Majors .....	2
Directed Physical Education Activity (PHED) Electives .....	4
HLTH/PHED Electives <sup>2</sup> .....	6
Directed Electives <sup>2</sup> .....	6
Humanities or Science/Mathematics Elective <sup>2</sup> .....	3

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition I .....	3
MATH 101 Intermediate Algebra (or higher mathematics) .....	3
SPCH 143 Speech .....	3

*The Reading and Speaking Intensive requirement may be met by HLTH 201 or 210.*

*The Writing Intensive requirement may be met by PHED 212.*

*The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>	<b>19</b>
ENGL 102 English Composition II .....	3
LFSC 100 Human Biology .....	4
PSYC 142 General Psychology .....	3
Humanities Elective – Common Core List <sup>2</sup> .....	3
Social Science Elective – Core List <sup>2</sup> .....	3
Humanities or Science/Mathematics Elective – Broad Core List <sup>2</sup> .....	3

*The Computer Skills requirement is met by Computers Across the Curriculum.*

*The Physical Education Fitness/Wellness requirement may be met by PHED 225.*

<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
ENGL 101 .....	3
PHED 225 .....	2
PHED 150 .....	3
PSYC 142 .....	3
Dir PHED Activity .....	2
Directed Elective .....	3
Total Hours:	16
<b>Semester II</b>	
ENGL 102 .....	3
HLTH 211 .....	2
LFSC 100 .....	4
SPCH 143 .....	3
HLTH/PHED Elec .....	3
Dir PHED Activity .....	1
Total Hours:	16
<b>Semester III</b>	
HLTH 201/210(R/S) .....	3
MATH 101 .....	3
PHED 146 .....	1
PHED 212(W) .....	3
Hum/Sci/Math Elective .....	3
Directed Elective .....	3
Total Hours:	16
<b>Semester IV</b>	
ATTR 209 .....	3
HLTH/PHED Elec .....	3
Humanities Elec .....	3
Social Science Elec .....	3
Hum/Sci/Math Elective .....	3
Dir PHED Activity .....	1
Total Hours:	16

**64**

<sup>1</sup> For teacher education concentration Health Promotion/Health Education Concentration 3106 see page 213. For teacher education concentration Physical Education Concentration 3104 see page 218.

<sup>2</sup> All selections should be based upon meeting General Education graduation requirements, transfer institution/2+2 requirements, and student developing career interests.

**PHYSICAL EDUCATION**  
**FITNESS-WELLNESS/PERSONAL TRAINER CONCENTRATION 3102**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This program is a specialization for students who wish to pursue an exercise science/physical fitness related career. Upon completion, students may transfer to a selected baccalaureate institution. Potential employment settings include fitness/wellness centers; health clubs; community, employee and institutional exercise programs; as well as laboratory, clinical and military settings with an advanced degree and/or additional training. Students may wish to investigate future American College of Sports Medicine certification as a physical fitness instructor.

<b>Major Program Requirements</b>	<b>Credit Hours</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
	<b>37-38</b>	
ATTR 209 Introduction to Athletic Training .....	3	
HLTH 201 Personal Health Science .....	3	
HLTH 211 First Aid .....	2	
LFSC 100 Human Biology -or-		
FACS 206 Fundamentals of Nutrition .....	3-4	
PHED 150 Foundations of Physical Education .....	3	
PHED 212 Introduction to Exercise Science .....	3	
PHED 146 Weight Training for Sport and Fitness Conditioning .....	1	
PHED 225 Physical Fitness and Conditioning for Majors .....	2	
PHED 240 Leadership in Intramural-Recreational Sports .....	2	
PHED 251 Instructional Leadership for Human Movement/Exercise Activity .....	2	
PHED 255 Management of Recreation, Sport and Fitness .....	3	
PHED 270 Exercise Program Development and Evaluation .....	3	
PHED 271 Psycho-Socio Aspects of Sport and Exercise .....	3	
Individual and/or Team Sports Elective <sup>1</sup> .....	1	
HLTH/PHED Electives <sup>1</sup> .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core 9</b>		
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech .....	3	
<i>The Reading Intensive requirement may be met by HLTH 201.</i>		
<i>The Writing Intensive requirement may be met by PHED 212.</i>		
<i>The Speaking Intensive requirement may be met by PHED 270.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core 18</b>		
ENGL 102 English Composition II .....	3	
LFSC 111 Anatomy and Physiology I .....	2	
LFSC 111L Anatomy and Physiology Laboratory I .....	1	
LFSC 112 Anatomy and Physiology II .....	2	
LFSC 112L Anatomy and Physiology Laboratory II .....	1	
PSYC 142 General Psychology .....	3	
SOCL 151 Principles of Sociology .....	3	
Humanities Elective – Common Core List <sup>1</sup> .....	3	
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>		
<i>The Physical Education Fitness/Wellness requirement is met by PHED 225.</i>		
	<b>64-65</b>	
		<b>Semester I</b>
		ENGL 101 .....3
		HLTH 201(R) .....3
		PHED 146 .....1
		PHED 150 .....3
		PHED 225 .....2
		PSYC 142 .....3
		Total Hours: 15
		<b>Semester II</b>
		ENGL 102 .....3
		HLTH 211 .....2
		LFSC 100/
		FACS 206 .....3-4
		MATH 101 .....3
		SOCL 151 .....3
		SPCH 143 .....3
		Total Hours: 17-18
		<b>Semester III</b>
		ATTR 209 .....3
		LFSC 111 .....2
		LFSC 111L .....1
		PHED 212(W) .....3
		PHED 240 .....2
		Humanities Elec .....3
		Indiv +/-or Team
		Sports Elective .....1
		Total Hours: 15
		<b>Semester IV</b>
		LFSC 112 .....2
		LFSC 112L .....1
		PHED 251 .....2
		PHED 255 .....3
		PHED 270(S) .....3
		PHED 271 .....3
		HLTH/PHED Elec .....3
		Total Hours: 17

<sup>1</sup> All selections should be based up on meeting General Education graduation requirements, transfer institution/2+2 requirements, and student developing career interests.

**PHYSICAL EDUCATION – SPORTS MANAGEMENT CONCENTRATION 3101**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This program is designed to provide the first two years of preparation in sports studies. Areas of study emphasis may be sports administration, sports marketing and management, sports media, aquatics, recreational sports, and others. Certain of these areas may require specialized course selections at Vincennes University and/or the transfer institution of student choice.

	<b>Credit Hours</b>																																																																							
<b>Major Program Requirements</b>	<b>36</b>																																																																							
BCST 205 Sports Media .....	3	<table border="1"> <tr> <td align="center" colspan="2"><i>Recommended Sequence of Courses</i></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>HLTH 211 .....</td> <td align="right">2</td> </tr> <tr> <td>MGMT 100 .....</td> <td align="right">3</td> </tr> <tr> <td>PHED 150 .....</td> <td align="right">3</td> </tr> <tr> <td>PHED 225 .....</td> <td align="right">2</td> </tr> <tr> <td>PHED 240 .....</td> <td align="right">3</td> </tr> <tr> <td>PHED 255 .....</td> <td align="right">2</td> </tr> <tr> <td>PHED 271 .....</td> <td align="right">3</td> </tr> <tr> <td>PSYC 142 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>ENGL 102 .....</td> <td align="right">3</td> </tr> <tr> <td>HLTH 201(R) .....</td> <td align="right">3</td> </tr> <tr> <td>LFSC 100 .....</td> <td align="right">4</td> </tr> <tr> <td>SOCL 151 .....</td> <td align="right">3</td> </tr> <tr> <td>SPCH 143 .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 16</td> </tr> <tr> <td align="center" colspan="2"><b>Semester III</b></td> </tr> <tr> <td>COMP 201 .....</td> <td align="right">3</td> </tr> <tr> <td>MATH 101 .....</td> <td align="right">3</td> </tr> <tr> <td>PHED 212(W) .....</td> <td align="right">3</td> </tr> <tr> <td>PHED 240 .....</td> <td align="right">2</td> </tr> <tr> <td>Humanities Elec .....</td> <td align="right">3</td> </tr> <tr> <td>Directed Elective(s) .....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 17</td> </tr> <tr> <td align="center" colspan="2"><b>Semester IV</b></td> </tr> <tr> <td>BCST 205 .....</td> <td align="right">3</td> </tr> <tr> <td>PHED 255(S) .....</td> <td align="right">3</td> </tr> <tr> <td>PHED 271 .....</td> <td align="right">3</td> </tr> <tr> <td>Hum/Sci/Math Elective.....</td> <td align="right">3</td> </tr> <tr> <td>Directed Elective.....</td> <td align="right">3</td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> </table>	<i>Recommended Sequence of Courses</i>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		ENGL 101 .....	3	HLTH 211 .....	2	MGMT 100 .....	3	PHED 150 .....	3	PHED 225 .....	2	PHED 240 .....	3	PHED 255 .....	2	PHED 271 .....	3	PSYC 142 .....	3	Total Hours: 16		<b>Semester II</b>		ENGL 102 .....	3	HLTH 201(R) .....	3	LFSC 100 .....	4	SOCL 151 .....	3	SPCH 143 .....	3	Total Hours: 16		<b>Semester III</b>		COMP 201 .....	3	MATH 101 .....	3	PHED 212(W) .....	3	PHED 240 .....	2	Humanities Elec .....	3	Directed Elective(s) .....	3	Total Hours: 17		<b>Semester IV</b>		BCST 205 .....	3	PHED 255(S) .....	3	PHED 271 .....	3	Hum/Sci/Math Elective.....	3	Directed Elective.....	3	Total Hours: 15	
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**PHYSICAL EDUCATION**  
**SPORTS MEDICINE/ATHLETIC TRAINING CONCENTRATION 3103**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This program is a specialization for students who wish to pursue an athletic training course of study. Students should prepare for transfer to a baccalaureate institution that provides a National Athletic Trainers Association accredited program. Employment opportunities for NATA certified trainers include high school, college, professional and related athletic, sport and exercise organizations.

Athletic training faculty provide instruction and guidance in both the VU Athletic Training on-campus courses and practicum, as well as through practicum experiences at area high schools and/or sports medicine clinics. Students are responsible for transportation to all off-campus practicum assignments.

**Admission Requirements:**

Each student application is reviewed individually. The following criteria is used as a guide for direct admission:

1. Meet admission requirements of the University.
2. Completion of two semesters of high school biology or other life science course with a grade of *C* or better, or two semesters of college biology or life science with a grade of *C* or better.
3. Completion of two semesters of high school mathematics including one semester of algebra or, one semester of college level math (100 level or greater) with a grade of *C* or better.
4. Applicants who do not meet all of the above criteria for direct admission may enroll in General Studies for Athletic Training.
5. A full-time student status must be maintained each semester with a minimum of 12 credit hours per semester.
6. An athletic training faculty advisor will be assigned to recommend courses.
7. A 2.0 grade point average, with no grade lower than *C* will be utilized as a guide for admission.
8. Each applicant to the Athletic Training Program will be reviewed following the first and second semesters of General Studies for Athletic Training.
9. Students must meet the above minimum criteria in order to be accepted into the Athletic Training Program or will be advised into another program, or additional semesters of General Studies.

<b>Major Program Requirements</b>	<b>Credit Hours</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)																		
	<b>35-37</b>																			
ATTR 199 Freshman Seminar: Athletic Training and Health Promotion .....	3	<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2" style="text-align: left;"><b>Semester I</b></th> </tr> </thead> <tbody> <tr> <td>ATTR 199 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>ATTR 252 .....</td> <td style="text-align: right;">1</td> </tr> <tr> <td>ENGL 101 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>HLTH 211 .....</td> <td style="text-align: right;">2</td> </tr> <tr> <td>HLTH 101/ PHED 150 .....</td> <td style="text-align: right;">3</td> </tr> <tr> <td>LFSC 111 .....</td> <td style="text-align: right;">2</td> </tr> <tr> <td>LFSC 111L .....</td> <td style="text-align: right;">1</td> </tr> <tr> <td style="text-align: right;">Total Hours:</td> <td style="text-align: right;">15</td> </tr> </tbody> </table>	<b>Semester I</b>		ATTR 199 .....	3	ATTR 252 .....	1	ENGL 101 .....	3	HLTH 211 .....	2	HLTH 101/ PHED 150 .....	3	LFSC 111 .....	2	LFSC 111L .....	1	Total Hours:	15
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HLTH 101/ PHED 150 .....	3																			
LFSC 111 .....	2																			
LFSC 111L .....	1																			
Total Hours:	15																			
ATTR 209 Introduction to Athletic Training .....	3																			
ATTR 252 Athletic Training Practicum I .....	1																			
ATTR 253 Athletic Training Practicum II .....	1																			
ATTR 263 Athletic Training Practicum III .....	1																			
ATTR 264 Athletic Training Practicum IV .....	1																			
HLTH 101 Foundations of Health and Sports Medicine Professions -or- PHED 150 Foundations of Physical Education <sup>1</sup> .....	3																			
HLTH 201 Personal Health Science .....	3																			
HLTH 210 Community Health and Wellness .....	3																			
HLTH 211 First Aid .....	2																			
HLTH 213 Advanced First Aid .....	2																			
PHED 146 Weight Training for Sport and Fitness Conditioning .....	1																			
PHED 212 Introduction to Exercise Science .....	3																			
PHED 225 Physical Fitness and Conditioning for Majors .....	2																			
Directed Elective .....	3																			
Directed Mathematics/Laboratory Science Elective <sup>2</sup> .....	3-5																			

*(Continued on the following page)*

<sup>1</sup> Students desiring to teach physical education will take PHED 150; all others will be advised to take HLTH 101.

<sup>2</sup> All selections should be based up on meeting General Education graduation requirements, transfer institution/2+2 requirements, and student developing career interests.

## General Education Requirements

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition .....	3
MATH 101 Intermediate Algebra (or higher mathematics) .....	3
SPCH 143 Speech .....	3

*The Reading Intensive requirement may be met by HLTH 201 or 210.*

*The Writing Intensive requirement may be met by ATTR 264, HLTH 201, or PHED 212.*

*The Speaking Intensive requirement may be met by ATTR 264.*

*The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>	<b>18</b>
ENGL 102 English Composition II .....	3
LFSC 111 Anatomy and Physiology I .....	2
LFSC 111L Anatomy and Physiology Laboratory I .....	1
LFSC 112 Anatomy and Physiology II .....	2
LFSC 112L Anatomy and Physiology Laboratory II .....	1
PSYC 142 General Psychology .....	3
SOCL 151 Principles of Sociology .....	3
Directed Humanities Elective – Common Core List <sup>1</sup> .....	3

*The Computer Skills requirement is met by Computers Across the Curriculum.*

*The Physical Education Fitness and Activity requirement is met by PHED 225.* **62-64**

### Semester II

ATTR 209 .....	3
ATTR 253 .....	1
ENGL 102 .....	3
LFSC 112 .....	2
LFSC 112L .....	1
MATH 101 .....	3
SPCH 143 .....	3
Total Hours:	16

### Semester III

ATTR 263 .....	1
HLTH 210(R) .....	3
HLTH 213 .....	2
PHED 146 .....	1
PHED 212(W) .....	3
PHED 225 .....	2
Directed Elective .....	3
Total Hours:	15

### Semester IV

ATTR 264(W/S) .....	1
HLTH 201(R/W) .....	3
PSYC 142 .....	3
SOCL 151 .....	3
Dir Math/Lab Science Elective .....	3-5
Dir Human Elec .....	3
Total Hours:	16-18

<sup>1</sup> All selections should be based up on meeting General Education graduation requirements, transfer institution/2+2 requirements, and student developing career interests.



**PHYSICAL FITNESS LEADERSHIP 3150**  
**A Certificate of Program Completion**

The physical fitness leadership certificate program is designed for individuals who have experience or who anticipate full- or part-time entry level employment or voluntary leadership opportunities in environments where physical fitness activities are an integral program component. Curriculum and activities are designed for individuals who have previous work or voluntary experience and/or education related to physical fitness and who need an abbreviated program to develop entry level physical fitness leadership competencies.

	<b>Credit Hours</b>
ATTR 209 Introduction to Athletic Training .....	3
FACS 206 Nutrition .....	3
HLTH 201 Personal Health Science .....	3
HLTH 211 First Aid .....	2
LFSC 111 Anatomy and Physiology I .....	2
LFSC 111L Anatomy and Physiology Laboratory I .....	1
LFSC 112 Anatomy and Physiology II .....	2
LFSC 112L Anatomy and Physiology Laboratory II .....	1
PHED 146 Weight Training for Sport and Fitness Conditioning .....	1
PHED 212 Introduction to Exercise Science .....	3
PHED 225 Physical Fitness and Conditioning for Majors .....	2
PHED 251 Instructional Leadership for Human Movement/Exercise Activity .....	2
PHED 270 Exercise Program Development and Evaluation .....	3
Directed Elective .....	1
	<b>29</b>

<i>Recommended Sequence of Courses</i>	
(This sequence assumes any necessary developmental requirements have been met.)	
Semester I	
FACS 206 .....	3
HLTH 201 .....	3
HLTH 211 .....	2
LFSC 111 .....	2
LFSC 111L .....	1
PHED 212 .....	3
PHED 225 .....	2
Total Hours: 16	
Semester II	
ATTR 209 .....	3
LFSC 112 .....	2
LFSC 112L .....	1
PHED 146 .....	1
PHED 251 .....	2
PHED 270 .....	3
Directed Elective .....	1
Total Hours: 13	

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in ENGL 009 and 011.

## **PHYSICAL THERAPIST ASSISTANT 6400**

### **A Two-Year Program Leading to the A.S. Degree**

The Physical Therapist Assistant Program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE). Upon successful completion of this program, graduates are eligible to take the National PTA Exam to become certified physical therapist assistants. The aim of the program is to prepare graduates to work under the supervision of licensed physical therapists in a variety of settings, including: hospitals, rehabilitation centers, sports medicine clinics, nursing homes, extended care units, home health agencies, and school systems. Transportation, housing and meals during clinical affiliations are the students' responsibility.

The history, philosophy and procedures of physical therapist assisting are interwoven with study in general education and the basic physical and social sciences. The specialized curriculum includes theory and clinical experience in the technical skills related to the practice of physical therapist assisting. Applicants are accepted to the program during the fall semester only. Information regarding fees and tuition may be obtained on the Vincennes University website at [www.vinu.edu](http://www.vinu.edu).

#### **Program Goals**

Upon completion of the educational program the graduate will:

1. Be able to safely and competently function as a Physical Therapist Assistant, under the direction of a Physical Therapist, abiding by ethical standards as established by the American Physical Therapy Association (APTA).
2. Effectively convert the knowledge and skills gained within the PTA program to successful completion of the appropriate state licensure examination and to employment situations.
3. Seek out opportunities to continue professional and personal development for ongoing improvement of skills related to the delivery of Physical Therapy services.

#### **Selection Process**

The selection process for Vincennes University's Physical Therapist Assistant Program is based on the premise that student selection is vital to the development and maintenance of a strong program. The standards of selection will also contribute to the quality of care administered by graduates of this program. The Physical Therapist Assistant Program leads to an Associate of Science degree in Physical Therapist Assisting. In order to successfully complete this program, students must be highly motivated and have an academic background sufficient to cope with the curriculum. Due to the high number of applicants for this program, selection is competitive in nature and involves review by the Program's Admission Committee. All applicants are required to apply for admission to the Physical Therapist Assistant Program through the University Admissions Office. Applicants will be notified by letter regarding their status in the program. All applicants will be evaluated on an individual basis.

Preference is given to applicants with two or more years of life science courses and who receive a grade of *B* or higher in Anatomy and Physiology I and II. Only Intermediate Algebra, Anatomy and Physiology I, Anatomy and Physiology II, and Medical Terminology for Allied Health taken less than five years prior to admission to the PTA program will be considered for credit. Students seeking credit for Intermediate Algebra that was taken longer than five years prior to admission to the program may elect to take the University math placement test. Students seeking credit for Intermediate Algebra, Anatomy and Physiology I, Anatomy and Physiology II, and/or Medical Terminology for Allied Health that was taken longer than five years prior to admission to the program may elect to enroll in the course and seek early completion.

***Compliance with all criteria does not guarantee acceptance.***

#### **Admission Requirements**

Prior to being admitted to the program, students must:

1. Meet admission requirements of the University.
2. Possess physical and mental health acceptable for performance in the occupation as evidenced by examination by a licensed physician.
3. Participate in volunteer/work hours in at least three different Physical Therapy settings prior to acceptance to the program (for example, one experience in an outpatient setting, one experience in an inpatient setting or in a rehabilitation setting). Applicants must complete a minimum of 8 hours in each setting for a total of 24 hours. Forms for volunteer hours must be completed prior to acceptance to the program. Volunteer hour's forms will be sent to applicants that meet the minimum admission requirements of the Physical Therapist Assistant Program.

4. Release criminal background information to the Physical Therapist Assistant Program prior to admission. The background check will be at the applicant's expense. A prior conviction or prior criminal activity will not automatically bar the applicant from admission to the Physical Therapist Assistant Program. The applicant should provide a detailed explanation of the offenses or convictions. The Admissions Committee will review the case and make a determination as to whether the prior criminal activity makes the applicant unsuitable for practice or unlikely to be licensed at the completion of the applicant's education.
5. Meet all requirements in one of the following admission categories:
  - A. Admission requirements for applicants with less than 12 college credit hours:**
    1. Qualify for placement into MATH 101 as determined by Vincennes University placement test.
    2. Qualify for exemption from READ 011 as determined by placement test scores (e. g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University.)
    3. Qualify for placement into ENGL 101 as determined by placement tests (e.g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University.
    4. Graduate from an accredited high school. General Education Development (GED) will be acceptable if ranking is above the seventieth percentile.
    5. Possess a minimum High School GPA of 2.7 on a 4.0 scale.
  - B. Admission requirements for applicants with 12 college credit hours or more:**
    1. Supply Registrar's Office with official transcript.
    2. Possess a minimum GPA of 2.7 with no grades less than C in courses that are within the PTA curriculum.

**Notes:**

- Applicants who do not meet the above requirements will be advised into the pre-physical therapist assistant curriculum and must complete twelve hours of college credit (100 level or above) with a 2.7 grade point average in order to qualify for admission consideration. Upon completion of these courses, students are required to reapply through the Admissions Office in order to be reviewed for admission into the PTA program. *Completion of these courses does not guarantee acceptance into the program.*
- Applicants may repeat an academic course one time only in order to raise the grade to a C or better and maintain a minimum GPA of 2.7

**Registering for Physical Therapist Assistant Coursework**

Prior to beginning Physical Therapist Assistant coursework, students must:

1. Possess current certification in Basic Life Support (American Red Cross, CPR Professional Rescue or American Heart Association Healthcare Provider level).
2. Possess current immunizations and annual TB (PPD) test, and provide verification of Hepatitis B inoculation or refusal thereof.
3. File a medical/physical form, immunization records form, and the Hepatitis B vaccination form with the University Health Service Office. In some cases, drug screening may be required by the clinical affiliation site at the student's expense.

**Notes:**

- A fee for liability insurance will be charged through the University Bursar's Office.
- Students are strongly urged to maintain health insurance coverage. Any costs for necessary health care will be the responsibility of the student.

**Standards for Progression and Graduation**

In order to progress through the program to graduation, students must:

1. Successfully complete all required science courses sequentially as outlined on the curriculum page.
2. Successfully complete Anatomy and Physiology I, Anatomy and Physiology II, Medical Terminology for Allied Health and Physics for Health-related Professions by the end of Semester II.
3. Successfully complete all other non-PTA courses required in the curriculum prior to the end of Semester IV.
4. Achieve a minimum grade of C in all required courses and maintain a grade point average (GPA) of 2.0 each semester.

**Note:** Failure to meet the above requirements will result in withdrawal from the program.

**Policy and Procedures for Readmission**

1. Students receiving a course grade less than a “C” in any PTA course or support course must withdraw from the program.
2. Students receiving a grade of “F” in any PTA course are not eligible to reapply for the program.
3. Students meeting requirements may be readmitted one time only to the PTA Program. If a student withdraws or is unsuccessful in the second attempt, the student is not eligible for readmission to the PTA Program.
4. Students that fail a PTA required competency three times will be withdrawn from the program and are not eligible to apply for readmission.
5. Students dismissed from the program due to attendance, behavior, or any other reason deemed by faculty, are not eligible to apply for readmission.
6. Students seeking readmission must apply through the Vincennes University Admissions Office. Applicants must meet all criteria and will be considered in relationship with all other qualified PTA applicants; therefore, readmission applicants are not given preference over other qualified applicants.
7. Students readmitted to the PTA Program must begin the Program at the PTAS 110 level. No credit is given for previous PTA courses completed, regardless of the grade received for that course.
8. Students granted readmission must meet the PTA Program Standards for Progression and Graduation throughout the second admission.

	Credit Hours	
<b>Major Program Requirements</b>	<b>43</b>	<p style="text-align: center;"><i>Recommended Sequence of Courses</i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <p style="text-align: center;"><b>Semester I</b></p> <p>ENGL 101 .....3            HIMT 110 .....3            LFSC 111 .....2            LFSC 111L.....1            MATH 101 .....3            PTAS 110 .....5            Total Hours: 17</p> <hr/> <p style="text-align: center;"><b>Semester II</b></p> <p>LFSC 112 .....2            LFSC 112L.....1            PFWL 100 .....2            PHYS 100 .....3            PTAS 120 .....6            SPCH 148.....3            Total Hours: 17</p> <hr/> <p style="text-align: center;"><b>Summer</b></p> <p>PSYC 142 .....3            PTAS 130 .....5            Total Hours: 8</p> <hr/> <p style="text-align: center;"><b>Semester III</b></p> <p>ENGL 102 .....3            PSYC 201/            SOCL 151 .....3            PTAS 210 .....8            Humanities Elec .....3            Total Hours: 17</p> <hr/> <p style="text-align: center;"><b>Semester IV</b></p> <p>PTAS 224 .....5            PTAS 225 .....5            PTAS 230(R/W/S) .....3            Total Hours: 13</p>
HIMT 110 Medical Terminology for Allied Health.....	3	
LFSC 112 Anatomy and Physiology II .....	2	
LFSC 112L Anatomy and Physiology Laboratory II.....	1	
PTAS 110 Physical Therapist Assisting I.....	5	
PTAS 120 Physical Therapist Assisting II.....	6	
PTAS 130 Clinical Education I .....	5	
PTAS 210 Physical Therapist Assisting III .....	8	
PTAS 224 Clinical Education II .....	5	
PTAS 225 Clinical Education III.....	5	
PTAS 230 Seminar in Physical Therapist Assisting .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading, Writing and Speaking Intensive requirements may be met by PTAS 230.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>	<b>20</b>	
ENGL 102 English Composition II .....	3	
LFSC 111 Anatomy and Physiology I.....	2	
LFSC 111L Anatomy and Physiology Laboratory I.....	1	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PHYS 100 Physics for Health-related Professions .....	3	
PSYC 142 General Psychology .....	3	
PSYC 201 Developmental Psychology -or-		
SOCL 151 Principles of Sociology .....	3	
Humanities Elective – Common Core List .....	3	
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>		
	<b>72</b>	

**PRECISION AG CERTIFICATE 5303**  
**A One-Semester Certificate of Program Completion**

This certificate will expose students to agribusiness concepts and skills to meet the challenges facing the agricultural community. Agribusiness basics will be enhanced with new concepts and technology.

<b>Major Program Requirements</b>	<b>Credit Hours</b>
AGBS 260 Introduction to Precision Ag .....	3
AGBS 271 John Deere APEX Software.....	1
AGBS 272 Ag Leader SMS Software .....	1
AGBS 273 FarmWorks Software Suite .....	1
AGBS 280 Precision Ag Components.....	3
AGBS 290 Applied Precision Ag Technology .....	3
Electives <sup>1</sup> .....	3
	<b>15</b>

<i>Recommended Sequence of Courses</i>	
(This sequence assumes any necessary developmental requirements have been met.)	
Semester II	
AGBS 260 .....	3
AGBS 271 .....	1
AGBS 272 .....	1
AGBS 273 .....	1
AGBS 280 .....	3
AGBS290 .....	3
Electives .....	3
Total Hours: 15	

**NOTE:** All students must satisfy the University's minimal requirements through placement tests or enrollment in ENGL 009 or 011, READ 009 and 011, and MATH 011, MATT 103, 150 or 109.

<sup>1</sup> Recommended electives include E RTH 111 Introduction to Remote Sensing, E RTH 112 Geographic Information Systems (GIS), AGBS Electives, or AGRI Electives.

**PRINTING TECHNOLOGY 8460**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

Program emphasis is placed on developing technical skills in the graphic arts area. Graduates may anticipate opportunities in all areas of the graphic arts industries including management, service, sales and production positions in computer-aided publishing, digital imposition, photography and press. Successful completion also allows students to transfer to various four-year institutions.

<b>Major Program Requirements</b>	<b>Credit Hours - A.A.S.</b>	<b>A.S.</b>	<b>Recommended Sequence of Courses for A.A.S.</b>	<b>Recommended Sequence of Courses for A.S.</b>
PRNT 101 Introduction to Traditional and Digital Photography .....	1	1	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)
PRNT 101L Introduction to Traditional and Digital Photography Laboratory .....	2	2		
PRNT 102 Introduction to Screen Printing .....	1	1		
PRNT 102L Introduction to Screen Printing Lab .....	2	2		
PRNT 107 Principles of Layout .....	2	2		
PRNT 107L Principles of Layout Laboratory .....	1	1		
PRNT 110 Digital and Film Imposition .....	1	1		
PRNT 110L Digital and Film Imposition Laboratory ...	2	2		
PRNT 150 Offset Presswork I .....	2	2		
PRNT 150L Offset Presswork Laboratory I .....	2	2		
PRNT 151 Flexography Press Operation I .....	2	2		
PRNT 151L Flexography Press Operation Laboratory I	2	2		
PRNT 155 Computer Aided Publishing .....	2	2		
PRNT 155L Computer Aided Publishing Laboratory ...	2	2		
PRNT 170 Camera/Digital Reproduction Photography .....	2	2		
PRNT 170L Camera/Digital Reproduction Photography Laboratory .....	2	2		
PRNT 200 Job Planning and Material Budgeting .....	2	2		
PRNT 200L Job Planning and Material Budgeting Laboratory .....	1	1		
PRNT 210 Offset Presswork II .....	2	2		
PRNT 210L Offset Presswork Laboratory II .....	2	2		
PRNT 211 Flexography Press Operation II .....	2	2		
PRNT 211L Flexography Press Operation Laboratory II .....	2	2		
PRNT 215 Advanced Computer Aided Publishing .....	1	1		
PRNT 215L Advanced Computer Aided Publishing Laboratory .....	2	2		
PRNT 220 Electronic Trapping/Imposition and Flightcheck .....	1	1		
PRNT 220L Electronic Trapping/Imposition and Flightcheck Laboratory .....	2	2		
Technical Elective .....	3	0		
<b>General Education Requirements</b>				
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>				
<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>		
ENGL 101 English Composition I .....	3	3		
MATH 101 Intermediate Algebra .....	-	3		
100-level or Higher Mathematics .....	3	-		
SPCH 143 Speech -or-				
SPCH 148 Interpersonal Communication .....	3	3		

(Continued on the following page)

The Reading, Writing and Speaking Intensive requirements may be met by PRNT 200 and PRNT 200L.

The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.

<b>Liberal Education Core</b>	<b>14</b>	<b>20</b>
ENGL 102 English Composition II .....	- 3	
ENGL 108 Technical Writing .....	3	-
PFWL 100 Lifetime Physical/Fitness .....	2	2
Laboratory Science Elective – Common Core List .....	3	3
Humanities Elective – Common Core List .....	-	3
Social Science Electives – Core List .....	3	6
One course from one of the following areas: Humanities, Mathematics or Science – Broad Core List -or-		
Social Science – Core List .....	3	-
Humanities or Science/Mathematics Elective – Broad Core List .....	-	3
<i>Computer Skills are enhanced by PRNT 155. ___</i>		
<b>71</b>		<b>74</b>

Semester IV	Semester IV
PFWL 100 .....2	PFWL 100 .....2
PRNT 200(R/W/S) ...2	PRNT 200(R/W/S) ...2
PRNT 200L(R/W/S) .1	PRNT 200L(R/W/S) .1
PRNT 220 .....1	PRNT 220 .....1
PRNT 220L .....2	PRNT 220L .....2
Lab Science Elec .....3	Soc Sci Elective .....3
Hum/Sci/Math/	Lab Science Elec .....3
Soc Sci Elec .....3	Hum/Sci/Math
Technical Elec .....3	Elec .....3
Total Hours: 17	Total Hours: 17

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**PROGRAMMING AND GAME DEVELOPMENT CERTIFICATE 5456**  
**A One-Year Certificate of Program Completion**

This certificate is designed to create a foundation for students who are interested in a career or other degree in areas related to game design. Through courses covered in this program, students will develop the talents and skills required to be involved in the game creation process. A wide range of topics will be covered: including programming, animation skills, artificial intelligence and 3-D modeling.

	Credit Hours	
COMP 115 Game Design Theory .....	3	<p style="text-align: center;"><i><b>Recommended Sequence of Courses</b></i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester I</b></p> <p>COMP 115 .....3            COMP 150 .....3            COMP 176 .....3            COMP 190 ..... 3            COMP 215.....<u>3</u>            Total Hours: 15</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester II</b></p> <p>COMP 203 .....3            COMP 250 .....3            COMP 276 .....3            COMP 290.....<u>3</u>            Total Hours: 12</p>
COMP 150 Game and Artificial Intelligence Programming I .....	3	
COMP 176 Introduction to Visual Programming.....	3	
COMP 190 Game Modeling and Animation I .....	3	
COMP 203 Visual C++ .....	3	
COMP 215 Database Management/SQL.....	3	
COMP 250 Game and Artificial Intelligence Programming II .....	3	
COMP 276 Advanced Visual Programming .....	3	
COMP 290 Game Modeling and Animation II .....	3	
	<u>27</u>	

**NOTE:** All students must satisfy the University’s minimal requirements through either placement tests or enrollment in ENGL 009 or 011, READ 009 and 011, and MATH 011, MATT 103, 105 or 109.



## RADIOGRAPHY 6650

### A Two-Year Program Leading to a Certificate from Good Samaritan Hospital and an A.S. Degree from Vincennes University

Good Samaritan Hospital offers individuals who are interested in a career in Radiography the opportunity to do so through their Radiography program, which is a 24-month hospital based program founded in 1956. The Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 North Wacker Drive, Suite 2850, Chicago, Illinois 60606-2901, 312-704-5300, email: [mail@jrcert.org](mailto:mail@jrcert.org).

The Program prepares the individual to assume responsibilities and duties of a Radiographer with ability and confidence. The Program integrates academic, technical and human relation aspects of an individual's education to enable them to do significant work in the profession.

Upon completion of the Program, the individual will be eligible to take the national registry examination and utilize their practical and technical skills as a professional Radiologic Technologist. By passing the American Registry of Radiologic Technologist (ARRT) examination, the individual is entitled to use the designation of Registered Technologist in Radiography signified by the initials R.T.® behind their name. Graduates, passing the national registry examination, are also required, in most states, to apply and receive their state operator license before being able to work without supervision.

All program didactic courses are taught at Good Samaritan Hospital with the students routinely rotating through five clinical sites during the 2-year program. This enables the student to broaden their experience and skills to other facilities. The five clinical sites utilized by the program include Good Samaritan Hospital in Vincennes, Indiana, Gibson General Hospital in Princeton, Indiana, Daviess Community Hospital in Washington, Indiana, Lawrence County Memorial Hospital in Lawrenceville, Illinois, and Sullivan County Community Hospital in Sullivan, Indiana.

#### Admission Procedure

Admission to the Program will be determined by the Good Samaritan Hospital Radiography Program Selection Committee. Applications for the Radiography Program can be obtained by calling the Program office at 812-885-8011 or by email at [radeduc@gshvin.org](mailto:radeduc@gshvin.org). Application Deadline is January 1st with a start date the second week of June.

Admission to Vincennes University will be through application to the University through the Admissions Office. Students who choose to take courses at Vincennes University leading to the optional A.S. Degree are required to take Vincennes University's Accuplacer CPTS Math and English Placement Test.

#### Academic Standards for Admission

In striving to meet the needs of the health care community and in striving to provide a quality educational experience for all students in the Good Samaritan Hospital Radiography Program, the following *Academic Standards for Admission* have been established.

#### High School Requirement

High School graduate or successful completion of a General Education Development (GED) program.

#### Aptitude Exam Requirement

Score an overall average above the twenty-fifth percentile on the academic portions of the Psychological Services Bureau Health Occupations Aptitude Examination (Administered by the GSH Radiography Program).

#### Pre-Admission Requirements

Before the start of the Program all applicants must have completed the following college courses and passed each course with a C or better:

1. HIMT 110 Medical Terminology for Allied Health, 3 credit hours
2. LFSC 111 Anatomy and Physiology I, 2 credit hours
3. LFSC 111L Anatomy and Physiology I Lab, 1 credit hour
4. LFSC 112 Anatomy and Physiology II, 2 credit hours
5. LFSC 112L Anatomy and Physiology II Lab, 1 credit hour
6. MATH 101 Intermediate Algebra (or higher mathematics), 3 credit hours
7. ENGL 101 English Composition I, 3 credit hours
8. SPCH 143 Speech or SPCH 148 Interpersonal Communication, 3 credit hours

*(Continued on the following page)*

Completion of the high school requirements, college prerequisites and/or optional A.S. degree required courses does not guarantee a position in the upcoming class. Each individual must complete a new application packet and go through the entire application process each year.

If you are pursuing the A.S. degree and are taking the prerequisites and/or the additional required A.S. degree courses at another college or university, contact the Chair of the Radiography Program at VU to verify that the courses will transfer into VU for the A.S. degree.

These standards are established as minimum standards. Due to the limited size of the class, candidate selection will be based on a combination of various areas such as: academics, entrance examination, career and life experiences, ability to meet the characteristics required of a radiographer (listed below) and a personal interview with the selection committee.

**Characteristics Required of a Radiographer:**

Radiography involves the provision of direct care for individuals and is characterized by the application of verified knowledge in the skillful performance of technical radiography functions.

Therefore, an individual must possess the following characteristics:

1. Sufficient strength, motor coordination and manual dexterity to:
  - a. Transport, move, lift, or transfer patients from a wheelchair or stretcher to a radiographic table or patient bed.
  - b. Move, adjust and manipulate a variety of radiographic equipment, including mobile radiographic units, in order to arrange and align the equipment with respect to the patient and the image receptor in accordance with established procedures and standards of speed and accuracy.
  - c. Physically place patients in proper positions for the examination in accordance with established procedures and standards of speed and accuracy.
2. Have communication abilities which allow him/her to:
  - a. Explain to and direct patients as necessary during an examination.
  - b. Work as a team member with other health care professionals.
3. Be capable of:
  - a. Handling stressful situations related to technical and procedural standards and patient care situations.
  - b. Providing physical and emotional support to the patient during radiographic procedures.
  - c. Responding to situations requiring first aid and providing emergency care to the patient in the absence of or until the physician or code team arrives.
4. Have the mental and intellectual capacity to:
  - a. Calculate and select proper technical factors according to the individual needs of the patient and the established procedures and standards of speed and accuracy.
  - b. Review and evaluate the recorded images on the radiograph to assess proper patient position, accuracy of procedural sequence, proper radiographic exposure and other appropriate and pertinent technical qualities.
  - c. Recognize signs and sounds of patient distress and react according to the accepted patient care procedures.
  - d. Utilize appropriate radiation protection standards and techniques for all ionizing radiation examination.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>64</b>	
HIMT 110 Medical Terminology for Allied Health .....	3	
RADG 100 Fundamentals of Radiologic Science and Health Care .....	3	
RADG 101 Clinical Practice I .....	3	
RADG 103 Patient Care in Radiologic Sciences I.....	2	
RADG 104 Radiographic Procedures I.....	4	
RADG 106 Positioning Lab I .....	3	
RADG 109 Clinical Practice II .....	3	
RADG 110 Patient Care in Radiologic Sciences II .....	2	
RADG 111 Radiographic Procedures II .....	4	
RADG 113 Positioning Laboratory II.....	3	
RADG 114 Radiation Production and Characteristics I.....	3	
RADG 115 Clinical Practice III .....	3	

**Recommended Sequence of Courses**  
(This sequence assumes any necessary developmental requirements have been met.)

<b>Pre-Radiography</b>	
ENGL 101 .....	3
HIMT 110 .....	3
LFSC 111 .....	2
LFSC 111L .....	1
LFSC 112 .....	2
LFSC 112L .....	1
MATH 101 .....	3
SPCH 143/148(W) ...	3
Total Hours:	18

(Continued on the following page)

RADG 116 Clinical Practice IV .....	3
RADG 201 Radiation Production and Characteristics II.....	3
RADG 202 Imaging and Processing .....	2
RADG 203 Radiographic Quality and Exposure .....	2
RADG 204 Pharmacology and Drug Administration.....	2
RADG 205 Clinical Practice V .....	3
RADG 207 Radiation Biology .....	4
RADG 208 Radiographic Pathology .....	2
RADG 209 Imaging Equipment .....	1
RADG 210 Clinical Practice VI .....	3
RADG 211 Seminar in Radiography .....	3

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b> .....	<b>9</b>
ENGL 101 English Composition I .....	3
MATH 101 Intermediate Algebra (or higher mathematics) .....	3
SPCH 143 Speech -or-	
SPCH 148 Interpersonal Communication .....	3

*The Reading Intensive requirement may be met by RADG 208.*

*The Writing Intensive requirement may be met by RADG 208 or SPCH 148.*

*The Speaking Intensive requirements may be met by RADG 111.*

*The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b> .....	<b>20</b>
ENGL 102 English Composition II .....	3
LFSC 111 Anatomy and Physiology I.....	2
LFSC 111L Anatomy and Physiology Laboratory I.....	1
LFSC 112 Anatomy and Physiology II .....	2
LFSC 112L Anatomy and Physiology Laboratory II.....	1
PFWL 100 Lifetime Fitness Wellness .....	2
Humanities Electives .....	3
Social Science Elective .....	6

*The Computer Skills requirement is met by Computers Across the Curriculum. \_\_\_*

<b>Summer</b>	
RADG 100 .....	3
RADG 101 .....	3
Soc Sci Elec.....	3
Total Hours:	9
<b>Semester I</b>	
RADG 103 .....	2
RADG 104 .....	4
RADG 106 .....	3
RADG 109 .....	3
RADG 114.....	3
Total Hours:	15
<b>Semester II</b>	
ENGL 102 .....	3
RADG 110 .....	2
RADG 111(S) .....	4
RADG 113 .....	3
RADG 115 .....	3
RADG 209.....	1
Total Hours:	16
<b>Summer</b>	
PFWL 100 .....	2
RADG 116 .....	3
Soc Sci Elec.....	3
Total Hours:	8
<b>Semester III</b>	
RADG 201 .....	3
RADG 202 .....	2
RADG 203 .....	2
RADG 204 .....	2
RADG 205.....	3
Total Hours:	12
<b>Semester IV</b>	
RADG 207 .....	4
RADG 208(R/W) .....	2
RADG 210 .....	3
RADG 211 .....	3
Humanities Elec .....	3
Total Hours:	15

**RELIGIOUS STUDIES CERTIFICATE 2481**  
**A Certificate of Program Completion**

This program provides the student with a broad initial background in the area of religious studies, especially in those areas largely unfamiliar in make-up to the average American student. The program will introduce the student to the basic elements of religions in a comparative fashion so that students will gain an understanding of the differences between their own religious tradition and the other major religious traditions of the East and West.

	<b>Credit Hours</b>	
ENGL 101 English Composition I .....	3	<p style="text-align: center;"><b>Recommended Sequence of Courses</b></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester I</b></p> <p>ENGL 101 ..... 3            HIST 235 .....3            PHIL 220 .....3            RLST 201 ..... 3            Total Hours: 12</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester II</b></p> <p>RLST 202 .....3            Electives ..... 3            Total Hours: 6</p>
HIST 235 World Civilization I .....	3	
LITR 210 Literature of the Old Testament -or-		
LITR 211 Literature of the New Testament -or-		
LITR 270 Native American Literature -or-		
SOCL 154 Cultural Anthropology -or-		
HUMN 245 Cultural Diversity: Humanities .....	3	
PHIL 220 Philosophy of Religion .....	3	
RLST 201 Major Religions of the West .....	3	
RLST 202 Major Religions of the East.....	3	
<b>18</b>		

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or placement in ENGL 009 or 011 and READ 009 and 011.

**RESTAURANT AND FOOD SERVICE MANAGEMENT 7750**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This curriculum offers prospective hospitality managers a comprehensive program of study in sound management practices directed toward the restaurant, food service, and institutional food service industry. Emphasis is given to the hospitality industry's communications, accounting, personnel management, production, cost controls, equipment and management of the perishable commodity.

		Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>																																																															
<b>Major Program Requirements</b>		<b>39-41</b>	<b>39 -41</b>																																																																	
HOTL 200	Hotel and Restaurant Food Operations .....	6	6	(This assumes any necessary developmental requirements have been met.)	(This assumes any necessary developmental requirements have been met.)																																																															
HOTL 230	Hospitality Budgeting, Forecasting and Cost Controls .....	3	3																																																																	
HOTL 240	Hospitality Security.....	1	1																																																																	
HOTL 241	Hospitality Customer Services.....	1	1																																																																	
HOTL 242	Dining Room Management for the Hospitality Industry.....	1	1																																																																	
REST 100	Introduction to Hospitality Management ..	3	3	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Semester I</th> <th style="text-align: center;">Semester I</th> </tr> </thead> <tbody> <tr> <td>ENGL 101 .....3</td> <td>ENGL 101 .....3</td> </tr> <tr> <td>HOTL 200 .....6</td> <td>HOTL 200 .....6</td> </tr> <tr> <td>REST 100 .....3</td> <td>REST 100 .....3</td> </tr> <tr> <td>REST 120 .....3</td> <td>REST 120 .....3</td> </tr> <tr> <td style="text-align: right;">Total Hours: 15</td> <td style="text-align: right;">Total Hours: 15</td> </tr> <tr> <th style="text-align: center;">Semester II</th> <th style="text-align: center;">Semester II</th> </tr> <tr> <td>REST 155 .....3</td> <td>PFWL 100 .....2</td> </tr> <tr> <td>REST 220(R) .....3</td> <td>REST 155 .....3</td> </tr> <tr> <td>REST 240 .....6</td> <td>REST 220(R) .....3</td> </tr> <tr> <td>SPCH 143/148.....3</td> <td>REST 240 .....6</td> </tr> <tr> <td style="text-align: right;">Total Hours: 15</td> <td style="text-align: right;">SPCH 143/148 .....3</td> </tr> <tr> <td></td> <td style="text-align: right;">Total Hours: 17</td> </tr> <tr> <th style="text-align: center;">Semester III</th> <th style="text-align: center;">Semester III</th> </tr> <tr> <td>ENGL 107/108 .....3</td> <td>ENGL 102/107/ 108 .....3</td> </tr> <tr> <td>PFWL 100 .....2</td> <td>MATH 101 .....3</td> </tr> <tr> <td>REST 200(W/S) .....3</td> <td>MATH 101 .....3</td> </tr> <tr> <td>REST 210 .....3</td> <td>REST 200(W/S) .....3</td> </tr> <tr> <td>Lab Science Elec.....3</td> <td>REST 210 .....3</td> </tr> <tr> <td>Math Elective .....3</td> <td>Humanities Elec.....3</td> </tr> <tr> <td style="text-align: right;">Total Hours: 17</td> <td style="text-align: right;">Lab Science Elec.....3</td> </tr> <tr> <td></td> <td style="text-align: right;">Total Hours: 18</td> </tr> <tr> <th style="text-align: center;">Semester IV</th> <th style="text-align: center;">Semester IV</th> </tr> <tr> <td>HOTL 230 .....3</td> <td>HOTL 230 .....3</td> </tr> <tr> <td>HOTL 240 .....1</td> <td>HOTL 240 .....1</td> </tr> <tr> <td>HOTL 241 .....1</td> <td>HOTL 241 .....1</td> </tr> <tr> <td>HOTL 242 .....1</td> <td>HOTL 242 .....1</td> </tr> <tr> <td>PSYC 142 .....3</td> <td>PSYC 142 .....3</td> </tr> <tr> <td>REST 230 .....3</td> <td>REST 230 .....3</td> </tr> <tr> <td>Soc Sci Elective.....3</td> <td>Hum/Sci/Math Elective .....3</td> </tr> <tr> <td style="text-align: right;">Total Hours: 15</td> <td style="text-align: right;">Soc Sci Elective.....3</td> </tr> <tr> <td></td> <td style="text-align: right;">Total Hours: 18</td> </tr> </tbody> </table>	Semester I	Semester I	ENGL 101 .....3	ENGL 101 .....3	HOTL 200 .....6	HOTL 200 .....6	REST 100 .....3	REST 100 .....3	REST 120 .....3	REST 120 .....3	Total Hours: 15	Total Hours: 15	Semester II	Semester II	REST 155 .....3	PFWL 100 .....2	REST 220(R) .....3	REST 155 .....3	REST 240 .....6	REST 220(R) .....3	SPCH 143/148.....3	REST 240 .....6	Total Hours: 15	SPCH 143/148 .....3		Total Hours: 17	Semester III	Semester III	ENGL 107/108 .....3	ENGL 102/107/ 108 .....3	PFWL 100 .....2	MATH 101 .....3	REST 200(W/S) .....3	MATH 101 .....3	REST 210 .....3	REST 200(W/S) .....3	Lab Science Elec.....3	REST 210 .....3	Math Elective .....3	Humanities Elec.....3	Total Hours: 17	Lab Science Elec.....3		Total Hours: 18	Semester IV	Semester IV	HOTL 230 .....3	HOTL 230 .....3	HOTL 240 .....1	HOTL 240 .....1	HOTL 241 .....1	HOTL 241 .....1	HOTL 242 .....1	HOTL 242 .....1	PSYC 142 .....3	PSYC 142 .....3	REST 230 .....3	REST 230 .....3	Soc Sci Elective.....3	Hum/Sci/Math Elective .....3	Total Hours: 15	Soc Sci Elective.....3		Total Hours: 18
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REST 200	Hospitality Human Resources Management.....	3	3																																																																	
REST 210	Beverage Sales and Service .....	3	3																																																																	
REST 220	Legal Aspects of the Hospitality Industry.	3	3																																																																	
REST 230	Menu Planning and Facility Design .....	3	3																																																																	
REST 240	Banquet, Catering, and Operational Management.....	6	6																																																																	
REST 270	Hospitality Services Internship <sup>1</sup> .....	0-2	0-2																																																																	
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<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>																																																																	
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SPCH 143	Speech -or-																																																																			
SPCH 148	Interpersonal Communication .....	3	3																																																																	
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<i>The Writing and Speaking Intensive requirements may be met by REST 200.</i>																																																																				
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>																																																																				
<b>Liberal Education Core</b>		<b>14</b>	<b>20</b>																																																																	
ENGL 102	English Composition II -or-																																																																			
ENGL 107	Business English -or-																																																																			
ENGL 108	Technical Writing .....	3	3																																																																	
PFWL 100	Lifetime Fitness/Wellness .....	2	2																																																																	

(Continued on the following page)

<sup>1</sup> REST 270 Hospitality Services Internship may be served in the summer after completing one year of the program. See course description for details.

PSYC 142 General Psychology .....	3	3
Laboratory Science Elective – Common Core List .....	3	3
Humanities Elective – Common Core List .....	-	3
Humanities or Science/Mathematics Elective – Broad Core List .....	-	3
Social Science Elective – Core List .....	3	3

The Computer Skills requirement is met by Computers \_\_\_\_\_  
Across the Curriculum. **62-64 68 -70**

**SALES TRAINING CERTIFICATE 5551  
A One-Year Certificate of Program Completion**

This certificate exposes students to sales methods, concepts, techniques, and ethics that address the challenges facing persons involved in sales of products and/or services. Traditional sales topics will be augmented with contemporary concepts in developing people skills, time management, and a business protocol. The program will provide a credential for those individuals who are unable to complete an associate degree, but who need verification of training taken in the field of Sales. The courses will count toward an A.A.S. in the Business Studies (5900) program.

	<b>Credit Hours</b>
ENGL 101 English Composition I .....	3
MATT 109 Business Math .....	3
MGMT 100 Introduction to Business .....	3
MGMT 210 Perspectives in Sales <sup>1</sup> .....	0-1
MGMT 255 Principles of Salesmanship .....	3
MKTG 155 Consumer Behavior .....	3
OADM 232 Presentation Software .....	3
OADM 266 Professional Business Image .....	3
SPCH 143 Speech .....	3
Approved Business Elective .....	3
	<b>27-28</b>

<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
<b>Semester I</b>
ENGL 101 .....3
MATT 109 .....3
MGMT 100 .....3
MKTG 155 .....3
OADM 232 .....3
Total Hours: 15
<b>Semester II</b>
MGMT 255 .....3
MGMT 210 .....0-1
OADM 266 .....3
SPCH 143 .....3
Elective.....3
Total Hours: 12-13

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in ENGL 009 or 011 and MATH 011, MATT 103, 105 or 109.

<sup>1</sup>This is an optional course to be taken by those students seeking recognition by the American Sales Association.

**SOCIAL WORK 1500**  
**A Two-Year Transfer Program Leading to the A.S. Degree**

This curriculum is the first two years of a four-year program and is designed to give students a basic general education background and an introduction to the field of social work. Social workers may be employed in the areas of family services, child welfare, schools, medicine and psychiatry, or probation and parole. This program is especially designed to transfer to baccalaureate institutions in the state of Indiana. Baccalaureate institutions that are accredited by the Council on Social Work Education have strict admission standards. Students should become familiar with the criteria at the specific school to which they wish to transfer.

	<b>Credit Hours</b>	<b>Recommended Sequence of Courses</b> (This sequence assumes any necessary developmental requirements have been met.)
<b>Major Program Requirements</b>		
	<b>36</b>	
CHEM 100 Elementary Chemistry -or-		
PHYS 100 Physics for Health-related Professions -or-		
Laboratory Science Elective .....	3	
ECON 100 Elements of Economics -or-		
ECON 201 Microeconomics -or-		
ECON 202 Macroeconomics .....	3	
HIST 139 American History I -or-		
HIST 140 American History II -or-		
HIST 235 World Civilization I -or-		
HIST 236 World Civilization II .....	3	
LITR 220 Introduction to World Literature I -or-		
LITR 221 Introduction to World Literature II -or-		
Humanities Elective – Common Core List .....	3	
SOCL 151 Principles of Sociology .....	3	
SOCL 153 Introduction to Social Work .....	3	
SOCL 240 Social Work Practice .....	3	
SOCL 250 Sociology of Aging .....	3	
SOCL 251 Introduction to Social Welfare and Social Work .....	3	
SOCL 252 Social Problems .....	3	
SOCL 266 Human Behavior in the Social Environment .....	3	
Electiv e <sup>1</sup> .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>		
	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra .....	3	
SPCH 143 Speech .....	3	
<i>The Reading and Writing Intensive requirements may be met by SOCL 251.</i>		
<i>The Speaking Intensive requirement may be met by SOCL 240.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		
<b>Liberal Education Core</b>		
	<b>21</b>	
ENGL 102 English Composition II .....	3	
LFSC 100 Human Biology .....	4	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PHIL 212 Introduction to Ethics.....	3	
POLS 111 American National Government -or-		
POLS 112 State and Local Government.....	3	
PSYC 142 General Psychology .....	3	
Humanities -or-		
Social Science Elective .....	3	
<i>The Computer Skills requirement is met by Computers Across the Curriculum.</i>		
	<b>66</b>	
		<b>Semester I</b>
		ENGL 101 .....3
		SOCL 250 .....3
		SOCL 151 .....3
		SOCL 153 .....3
		SPCH 143 .....3
		Total Hours: 15
		<b>Semester II</b>
		ENGL 102 .....3
		HIST 139/140/ 235/236 .....3
		LFSC 100 .....4
		PSYC 142 .....3
		SOCL 251(R/W) .....3
		SOCL 252 .....3
		Total Hours: 19
		<b>Semester III</b>
		CHEM 100/PHYS 100/ Lab Science Elec.....3
		LITR 220/221/ Humanities Elec.....3
		MATH 101 .....3
		PHIL 212 .....3
		SOCL 240(S).....3
		Total Hours: 15
		<b>Semester IV</b>
		ECON 100/201/202 ...3
		Humanities/ Social Sci Elec .....3
		PFWL 100 .....2
		POLS 111/112 .....3
		SOCL 266 .....3
		Elective.....3
		Total: 17

<sup>1</sup> Preferred electives: PSYC 249 Ab normal Psychology for students going to IUPUI or ISU; PSYC 201 Develop mental Psychology for students going to USI ; other students may choose either PSYC 201 or 249 or one of the following: SOCL 253 I ntroduction to Social Psychology, SOCL 260 Sociological Aspects of Death, or SOCL 261 Sociology of Relationships and Families.

**SUPPLY CHAIN LOGISTICS MANAGEMENT 5405**  
**A Two-Year Program Leading to the A.S. Degree**

This program prepares students for a variety of entry-level positions in the field of Supply Chain, Logistics, and Distribution. In addition, most of the courses are designed to assist the employed persons in upgrading their skills. The curriculum includes a core of business education as well as specialized training in procurement, transportation, production planning and scheduling, and materials management. The development of managerial skills useful in a variety of job situations is emphasized.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>42</b>	
ACCT 201 Principles of Accounting I .....	3	<div style="text-align: center;"><i>Recommended Sequence of Courses for A.S.</i></div> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <div style="text-align: center;"><b>Semester I</b></div> <p>ENGL 101 .....3  MATH 101 .....3  PFWL 100 .....2  PRDM 100 .....3  SPCH 143 .....3  Dir History Elec .....3  Total Hours: 17</p> <hr/> <div style="text-align: center;"><b>Semester II</b></div> <p>ACCT 201 .....3  ENGL 205 .....3  MGMT 250(R/W) .....3  MGMT 280 .....3  PRDM 214 .....3  PRDM 220 .....3  Total Hours: 18</p> <hr/> <div style="text-align: center;"><b>Summer</b></div> <p>BINT 207 .....3  Total Hours: 3</p> <hr/> <div style="text-align: center;"><b>Semester III</b></div> <p>COMP 201 .....3  ECON 201(R) .....3  HUMN 245 .....3  PRDM 215 .....3  PRDM 272 .....3  Lab Science Elec .....3  Total Hours: 18</p> <hr/> <div style="text-align: center;"><b>Semester IV</b></div> <p>BLAW 203(R/W/S) .....3  MGMT 275 .....3  MGMT 284 .....3  PHIL 212 .....3  PRDM 293 .....3  Total Hours: 15</p>
BINT 207 Logistics Internship .....	3	
BLAW 203 Legal Environment of Business .....	3	
COMP 201 The Computer in Business .....	3	
MGMT 250 Introduction to Management .....	3	
MGMT 275 Introduction to Business Finance .....	3	
MGMT 280 Introduction to Marketing .....	3	
MGMT 284 Operations Management .....	3	
PRDM 100 Supply Chain Logistics Management .....	3	
PRDM 214 Materials Management .....	3	
PRDM 215 Quality Management .....	3	
PRDM 220 Warehousing and Procurement .....	3	
PRDM 272 Transportation .....	3	
PRDM 293 Integrated Logistics Project.....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra (or higher mathematics) .....	3	
SPCH 143 Speech .....	3	
<p><i>The Reading Intensive requirement may be met by BLAW 203 or ECON 201 or MGMT 250.</i></p> <p><i>The Writing Intensive requirement may be met by BLAW 203 or MGMT 250.</i></p> <p><i>The Speaking Intensive requirement may be met by BLAW 203.</i></p> <p><i>The Mathematics Intensive requirements may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i></p>		
<b>Liberal Education Core</b>	<b>20</b>	
ECON 201 Microeconomics .....	3	
ENGL 205 Business Communications .....	3	
HUMN 245 Cultural Diversity: Humanities .....	3	
PFWL 100 Lifetime Fitness/Wellness .....	2	
PHIL 212 Introduction to Ethics.....	3	
Laboratory Science Elective – Common Core List .....	3	
Directed History Elective – Broad Core Liberal Education List .....	3	
<p><i>Computer Skills are enhanced by COMP 201 and integrated into major program requirements.</i></p>		
		<b>71</b>



**SUPPLY CHAIN AND LOGISTICS CERTIFICATE 5403**  
**A One-Year Certificate of Program Completion**

This certificate provides background for persons who are interested in more efficient ways to distribute and manage their products. The curriculum includes several basic subject areas such as accounting, computer software and e-commerce, operations and materials management, as well as total quality control. This provides an excellent stepping-stone to the Business Management degree program.

	<b>Credit Hours</b>	
<b>Major Program Requirements</b>	<b>21</b>	
ACCT 201 Principles of Accounting I .....	3	<p style="text-align: center;"><b>Recommended Sequence of Courses</b></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p><b>Semester I</b></p> <p>ENGL 101 .....3  MATH 101 .....3  PRDM 100 .....3  PRDM 272 .....3  Total Hours: 12</p> <hr style="border: 1px solid black;"/> <p><b>Semester II</b></p> <p>ACCT 201 .....3  COMP 201 .....3  MGMT 284 .....3  PRDM 214 .....3  PRDM 220 .....3  Total Hours: 15</p>
COMP 201 The Computer in Business .....	3	
MGMT 284 Operations Management .....	3	
PRDM 100 Supply Chain Logistics Management .....	3	
PRDM 214 Materials Management .....	3	
PRDM 220 Warehousing and Procurement .....	3	
PRDM 272 Transportation .....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>6</b>	
MATH 101 Intermediate Algebra .....	3	
ENGL 101 English Composition I .....	3	
<i>Computer Skills are enhanced by COMP 201.</i>		
	<b>27</b>	

**SURGICAL ASSISTING 6551**  
**A Certificate of Program Completion**

The surgical first assistant provides aid in exposure, hemostasis, and other technical functions that will assist the physician in performing a safe surgical procedure with optimal results for the patient. The role varies with the surgical operation, specialty area, and type of facility. Clinical skills are performed under the direct supervision of the surgeon. Through internet courses and clinical practice, this two-semester program is designed to enable students to develop the knowledge and skills required to perform as a surgical first assistant. Graduates are eligible to sit for the certifying examination administered by the National Board of Surgical Technology and Surgical Assisting to obtain the title of Certified First Assistant.

**Admission Requirements:**

1. Meet admission requirements of the University.
2. Preference for admission in the program is given to: Certified Surgical Technologist (CST), Certified Nurse-Operating Room (CNOR), or other qualified individual with a minimum of one year of operating room experience in the scrub role.
3. Recent graduate of a CAAHEP-accredited surgical technology program who has less than one year of scrub experience and meets the following criteria:
  - a. Has obtained certification as a CST.
  - b. Has successfully completed all coursework in a surgical technology program with a grade of “B” or better (3.0 GPA).
  - c. Has consistently obtained above average clinical evaluations in a surgical technology program.
  - d. Has a letter of recommendation for acceptance into the Surgical Assisting program from a clinical preceptor and a surgeon.
4. Six semester credits or equivalent of Anatomy and Physiology.
5. Minimum of three hours of General Education coursework. Coursework will be selected with approval of the program director to meet university graduation requirements.
6. Acceptable (to the clinical sites and the University) health and immunization records.
7. Satisfactory physical and mental health evidenced by examination by a licensed physician.
8. With instructor, obtain physician preceptors and case experience to meet program graduation requirements.

**Requirements for Surgical Assisting Students**

1. Students must possess certification in Community CPR.
2. Students must provide verification of Hepatitis B inoculation or refusal thereof.
3. Students are required to carry liability insurance that is obtainable through the University’s Business Office.
4. Students are encouraged to carry an active health-hospitalization insurance policy.
5. Students must supply own transportation to clinical sites.

**Standards for Progression and Graduation**

1. Surgical Assisting students must achieve a minimum grade of *C* in each course in the Surgical Assisting curriculum as a prerequisite for continuance in the program. Failure to meet this requirement will result in withdrawal of the student from the program.
2. Clinical experience is evaluated by the physician preceptor as “satisfactory” or “unsatisfactory” performance based upon criteria established by the program. If an unsatisfactory is received, the student has one more opportunity to repeat that specialty with another physician. If the second unsatisfactory is received, a failing grade is given for that course.
3. Students who receive a failing grade in the coursework will be eligible to reapply one time for readmission to the Surgical Assisting program and must repeat the failed course successfully.
4. An application for readmission to the program following withdrawal will be evaluated on an individual basis by the program director.
5. Students may only be readmitted to the program one time. If unsuccessful in the second attempt, students cannot be readmitted to the program.
6. The student must act in the role of surgical assistant on a minimum of 135 operative procedures in the required specialties as required by accreditation standards.

*(Continued on the following page)*

	<b>Credit Hours</b>
LFSC 207 Anatomy and Physiology III .....	3
LFSC 209 Anatomy and Physiology IV .....	3
SURG 230 Surgical Pharmacology .....	3
SURG 235 Biosciences for Surgical Assisting I.....	2
SURG 240 Biosciences for Surgical Assisting II.....	2
SURG 245 Fundamental Skills in Surgical Assisting .....	1
SURG 250 Roles and Ethics in Surgical Assisting .....	1
SURG 260 Surgical Specialties and Procedures I .....	2
SURG 265 Surgical Specialties and Procedures II .....	2
SURG 267 Surgical Specialties and Procedures III.....	2
SURG 269 Surgical Specialties and Procedures IV.....	2
SURG 270 Clinical Skills I .....	3
SURG 275 Clinical Skills II .....	3

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<b>Recommended Sequence of Courses</b>	
(This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
LFSC 207 .....	3
SURG 235 .....	2
SURG 240 .....	2
SURG 245 .....	1
SURG 250 .....	1
SURG 260 .....	2
SURG 265 .....	2
SURG 270 .....	<u>3</u>
Total Hours: 16	
<b>Semester II</b>	
LFSC 209 .....	3
SURG 230 .....	3
SURG 267 .....	2
SURG 269 .....	2
SURG 275 .....	<u>3</u>
Total Hours: 13	

**SURGICAL TECHNOLOGY 6550**  
**A Two-Year Program Leading to the A.S. Degree**

Completion of the two-year Surgical Technology program provides graduates with an A.S. degree in Surgical Technology. Students complete the Surgical Technology courses along with the general education courses required for the associate degree. Associate degrees are recommended by The Association of Surgical Technologists and related accreditation agencies to help graduates meet the changing needs in today's health care system. Upon successful completion of this program, the graduate will be eligible to sit for the National Board of Surgical Technology and Surgical Assisting (NBSTSA) Certification Examination. Arrangements will be made for students to take the National Examination. A fee will be assessed to students to cover the cost of the exam.

In addition, individuals currently possessing certification as a Certified Surgical Technologist may complete the A.S. degree in Surgical Technology by meeting the general education course requirements listed below. Individuals must be graduates of a formal or accredited certificate program in Surgical Technology. A formal program as defined by the National Association of Surgical Technology is one from an institution such as community, technical and junior colleges, senior colleges and universities; hospitals and clinics; postsecondary, vocational/technical schools and institutions, including educational programs within all military branches; proprietary schools; and other institutions or consortia that meet comparable standards for education in surgical technology. These individuals are accepted on an individual basis and will work closely with advisors to meet the required course work. General education courses may be taken on campus or through the Distance Education Program. Those completing the VU Certificate Program will receive 40 hours of college credit. Transfers from other programs are given 33 hours of college credit. The total requirement is 62-63 hours.

**Admission Requirements for High School Graduates with no College Credit**

Applicants are reviewed individually. The following criteria are utilized as a guide for direct admissions.

1. Meet admission requirements of the University.
2. Accredited high school graduation or satisfactory completion of the General Education Development Test (GED).
3. Qualify for placement into MATH 012 as determined by the Vincennes University Accuplacer test.
4. Complete READ 011 with a grade of "C" or higher or qualify for exemption from READ 011 as determined by placement test scores (e.g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University).
5. Complete ENGL 011 with a grade of "C" or higher or qualify for placement into ENGL 101 as determined by placement test scores (e.g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University).
6. Satisfactory physical and mental health evidenced by examination by a licensed physician.

**Admission Requirements for High School Graduates with College Credit**

1. The Surgical Technology faculty advisor will recommend courses.
2. A 2.5 cumulative grade point average (GPA) must be maintained throughout college coursework.
3. A grade of C or better is mandatory for each required college course.
4. Applicants in general studies will be reviewed for possible program admission following completion of the recommended coursework with a grade of C or better.
5. Students failing to meet the above criteria will be advised into another curriculum.
6. Satisfactory physical and mental health evidenced by examination by a licensed physician.

**Note:** Applicants not meeting the above selected criteria for direct admission may be advised to enroll in general studies courses to meet these requirements.

**Admission Procedures**

1. Applicants should follow regular college admission procedure.
2. Applicants may be interviewed by member(s) of the admission committee upon recommendation of the committee.
3. Results of the application data, transcripts, pre-entrance test scores and interview (if applicable) will be reviewed and all applicants will be notified regarding their admission standing.
4. Acceptance for admission to the University does not necessarily insure admission to the Surgical Technology Program.

**Requirements for Surgical Technology Students**

1. Students must possess certification in Community CPR.
2. Students must provide verification of Hepatitis B inoculation or refusal thereof.
3. Students are required to carry liability insurance that is obtainable through the University's Business Office.
4. Students are encouraged to carry an active health-hospitalization insurance policy.
5. Students must supply own transportation to clinical sites.

**Standards for Progression and Graduation**

1. Surgical Technology students must achieve a minimum grade of C in each course in the Surgical Technology Curriculum as a prerequisite for continuance in the program. Failure to meet this requirement will result in withdrawal of the student from the Surgical Technology Program.
2. Clinical experience is evaluated as a "satisfactory" or "unsatisfactory" performance based upon criteria established by the program. If the clinical laboratory performance is "unsatisfactory", a failing grade will be received in that course.
3. Students who receive a failing grade in a required Surgical Technology course (those with a SURG prefix) will not be eligible for readmission to the program regardless of GPA.
4. An application for readmission following withdrawal from the program will be evaluated individually by the Admission Committee.
5. Students may only be readmitted to the program one time. If unsuccessful in the second attempt, students cannot be readmitted to the program.

	Credit Hours	
<b>Major Program Requirements</b>	<b>33</b>	<p><i>Recommended Sequence of Courses for A.S.</i> (This assumes any necessary developmental requirements have been met.)</p> <hr/> <p><b>Semester I</b></p> <p>ENGL 101 ..... 3            MATH 101 ..... 3            Humanities Elec ..... 3            Soc Sci Elec ..... 3            Total Hours: 12</p> <hr/> <p><b>Semester II</b></p> <p>ENGL 102 ..... 3            PFWL 100 or PFWL 115/            HLTH 211 ..... 2-3            SPCH 143/148 ..... 3            Social Sci Elec ..... 3            Elective ..... 2            Total Hours: 13-14</p>
HIMT 110 Medical Terminology for Allied Health.....	3	
SURG 100 Surgical Technology .....	5	
SURG 105 Surgical Technology Application .....	4	
SURG 110 Pharmacology for Surgical Techs .....	2	
SURG 120 Surgical Technology II .....	11	
SURG 200 Surgical Technology III .....	2	
SURG 225 Professional Practice .....	4	
Elective <sup>1</sup> .....	2	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core</b>	<b>9</b>	
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra.....	-	
100-level or Higher Mathematics Course .....	3	
SPCH 143 Speech - or - .....	-	
SPCH 148 Interpersonal Communication .....	3	
<i>The Reading Intensive requirement may be met by SURG 120.</i>		
<i>The Writing and Speaking Intensive requirements may be met by SURG 225.</i>		
<i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i>		

(Continued on the following page)

<sup>1</sup> Students must complete a minimum of 62 credit hours required for an associate degree. At least 15 hours must be 200-level courses.

**Liberal Education Core**

	<b>20-21</b>
ENGL 102 English Composition II .....	3
LFSC 111 Anatomy and Physiology I.....	2
LFSC 111L Anatomy and Physiology Laboratory I.....	1
LFSC 112 Anatomy and Physiology II .....	2
LFSC 112L Anatomy and Physiology Laboratory II.....	1
PFWL 100 Lifetime Fitness/Wellness -or-	
PFWL 115 Concepts in Wellness -and-	
HLTH 211 First Aid .....	2-3
Humanities Elective – Common Core List .....	3
Humanities Elective – Broad Core List .....	-
Social Science Elective – Core List .....	6
Foreign Language .....	-

*Computer Skills requirement is met by Curriculum  
Across the Curriculum.*

**62-63**

Semester III	
HIMT 110 .....	3
LFSC 111 .....	2
LFSC 111L .....	1
SURG 100 .....	5
SURG 105.....	4
Total Hours:	15
Semester IV	
LFSC 112 .....	2
LFSC 112L .....	1
SURG 110 .....	2
SURG 120(R/S) .....	11
Total Hours:	16
Summer	
SURG 200 .....	2
SURG 225 (W) .....	4
Total Hours:	6



**SURGICAL TECHNOLOGY CERTIFICATE 6500**  
**A One-Year Certificate of Graduation**

The Surgical Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and recognized by the Association of Surgical Technologists.

Through a combination of lecture, laboratory, and clinical practice, this 11-month program is designed to enable students to develop knowledge of the surgical environment, instrumentation, procedures and supplies. As integral members of the surgical team, Surgical Technologists work with surgeons, anesthesiologists, registered nurses, and other surgical personnel delivering patient care and assuming appropriate responsibilities before, during, and after surgery. Upon successful completion of this program, the graduate will be eligible to sit for the National Board of Surgical Technology and Surgical Assisting (NBSTSA) Certification Examination. Arrangements will be made for students to take the National Examination. A fee will be assessed to students to cover the cost of the exam.

**Admission Requirements for High School Graduates with no College Credit**

Applicants are reviewed individually. The following criteria are utilized as a guide for direct admissions.

1. Meet admission requirements of the University.
2. Accredited high school graduation or satisfactory completion of the General Education Development Test (GED).
3. Qualify for placement into MATH 012 as determined by the Vincennes University Accuplacer test).
4. Complete READ 011 with a grade of "C" or higher or qualify for exemption from READ 011 as determined by placement test scores (e.g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University).
5. Complete ENGL 011 with a grade of "C" or higher or qualify for placement into ENGL 101 as determined by placement test scores (e.g. SAT, ACT, or other standardized placement tests as accepted by Vincennes University).
6. Satisfactory physical and mental health evidenced by examination by a licensed physician.

**Admission Requirements for High School Graduates with College Credit**

1. The Surgical Technology faculty advisor will recommend courses.
2. A 2.5 cumulative grade point average (GPA) must be maintained throughout college coursework.
3. A grade of C or better is mandatory for each required college course.
4. Applicants in general studies will be reviewed for possible program admission following completion of the recommended coursework with a grade of C or better.
5. Students failing to meet the above criteria will be advised into another curriculum.
6. Satisfactory physical and mental health evidenced by examination by a licensed physician.

**Note:** Applicants not meeting the above selected criteria for direct admission may be advised to enroll in general studies courses to meet these requirements.

**Admission Procedures**

1. Applicants should follow regular college admission procedure.
2. Applicants may be interviewed by member(s) of the admission committee upon recommendation of the committee.
3. Results of the application data, transcripts, pre-entrance test scores and interview (if applicable) will be reviewed and all applicants will be notified regarding their admission standing.
4. Acceptance for admission to the University does not necessarily insure admission to the Surgical Technology Program.

**Requirements for Surgical Technology Students**

1. Students must possess certification in Community CPR.
2. Students must provide verification of Hepatitis B inoculation or refusal thereof.
3. Students are required to carry liability insurance that is obtainable through the University's Business Office.
4. Students are encouraged to carry an active health-hospitalization insurance policy.
5. Students must supply own transportation to clinical sites.

*(Continued on the following page)*

**Standards for Progression and Graduation**

1. Surgical Technology students must achieve a minimum grade of C in each course in the Surgical Technology Curriculum as a prerequisite for continuance in the program. Failure to meet this requirement will result in withdrawal of the student from the Surgical Technology Program.
2. Clinical experience is evaluated as a "satisfactory" or "unsatisfactory" performance based upon criteria established by the program. If the clinical laboratory performance is "unsatisfactory", a failing grade will be received in that course.
3. Students who receive a failing grade in a required Surgical Technology course (those with a SURG prefix) will not be eligible for readmission to the program regardless of GPA.
4. Applications for readmission following withdrawal from the program will be evaluated individually by the Admission Committee.
5. Students may only be readmitted to the program one time. If unsuccessful in the second attempt, students cannot be readmitted to the program.

	<b>Credit Hours</b>
ENGL 101 English Composition I .....	3
HIMT 110 Medical Terminology for Allied Health.....	3
LFSC 111 Anatomy and Physiology I.....	2
LFSC 111L Anatomy and Physiology Laboratory I.....	1
LFSC 112 Anatomy and Physiology II .....	2
LFSC 112L Anatomy and Physiology Laboratory II.....	1
SURG 100 Surgical Technology I.....	5
SURG 105 Surgical Technology Application .....	4
SURG 110 Pharmacology for Surgical Technologists .....	2
SURG 120 Surgical Technology II.....	11
SURG 200 Surgical Technology III .....	2
SURG 225 Clinical Education .....	4
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/>
	<b>40</b>

<i>Recommended Sequence of Courses</i>	
(This sequence assumes any necessary developmental requirements have been met.)	
Semester I	
ENGL 101 .....	3
HIMT 110 .....	3
LFSC 111 .....	2
LFSC 111L.....	1
SURG 100 .....	5
SURG 105.....	4
Total Hours: 18	
Semester II	
LFSC 112 .....	2
LFSC 112L.....	1
SURG 110 .....	2
SURG 120 .....	11
Total Hours: 16	
Summer	
SURG 200 .....	2
SURG 225 .....	4
Total Hours: 6	

**NOTE:** All students must satisfy the University’s minimal requirements through either placement tests or enrollment in READ 011 and MATH 011, MATT 103, 105 or 109.



**SURVEYING TECHNOLOGY 8510**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

Surveying technologists may be employed in various capacities by consulting engineers, contractors, public utility companies, petroleum and coal industries, land surveyors, highway commissions, and various governmental agencies. With experience, appropriate continuing education and successful completion of the state and national exam, the status of land surveyor may be achieved. The Indiana Society of Professional Land Surveyors serves as the advisory committee for this program.

		Credit Hours - A.A.S.	A.S.	<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
<b>Major Program Requirements</b>		<b>46</b>	<b>44</b>		
ARCH 141	Introduction to Architectural CAD .....	3	3	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  DRAF 120 .....2 ENGL 101 .....3 EARTH 115 .....3 EARTH 115L .....2 MATH 102(M) .....3 SURV 100/181 .....3 SURV 125 .....3 Total Hours: 19  <b>Semester II</b>  ARCH 141 .....3 MATH 104 .....3 SPCH 143 .....3 SURV 155 .....3 SURV 165 .....4 Total Hours: 16  <b>Semester III</b>  PFWL 100 or PFWL 115/ HLTH 211 .....2-3 SURV 201(R) .....4 SURV 250 .....4 SURV 270 .....4 SURV 272 .....3 Total Hours: 17-18  <b>Semester IV</b>  PHYS 218 .....5 SURV 240(R/S) .....4 SURV 273 .....3 SURV 280(S) .....3 Soc Sci Elective .....3 Total Hours: 18	(This assumes any necessary developmental requirements have been met.)  <b>Semester I</b>  ENGL 101 .....3 EARTH 115 .....3 EARTH 115L .....2 MATH 102(M) .....3 SURV 100/181 .....3 SURV 125 .....3 Humanities Elec .....3 Total Hours: 20  <b>Semester II</b>  ARCH 141 .....3 ENGL 102 .....3 MATH 104 .....3 SPCH 143 .....3 SURV 155 .....3 SURV 165 .....4 Total Hours: 19  <b>Semester III</b>  MATH 115 .....3 SURV 201(R) .....4 SURV 250 .....4 SURV 270 .....4 SURV 272 .....3 Soc Sci Elective .....3 Total Hours: 21  <b>Semester IV</b>  PFWL 100 or PFWL 115/ HLTH 211 .....2-3 PHYS 218 .....5 SURV 240(R/S) .....4 SURV 273 .....3 SURV 280(S) .....3 Soc Sci Elec .....3 Total Hours: 20-21
DRAF 120	Computers for Technology .....	2	-		
MATH 104	Trigonometry .....	3	3		
SURV 100	Surveying Fundamentals -or-				
SURV 181	Site Surveying and Planning .....	3	3		
SURV 125	Land Survey Systems.....	3	3		
SURV 155	Topographic Surveying and Mapping.....	3	3		
SURV 165	Instrumentation and Control Surveying ...	4	4		
SURV 201	Boundary Surveying and Legal Aspects ...	4	4		
SURV 240	Subdivision Design and Layout .....	4	4		
SURV 250	Surveying Computations and Route/ Construction Surveys .....	4	4		
SURV 270	Surveying Applications Using AutoCAD and Related Software .....	4	4		
SURV 272	Property Description Writing and Analysis.....	3	3		
SURV 273	Surveying Law .....	3	3		
SURV 280	Survey Data Acquisition and Analysis.....	3	3		
<b>General Education Requirements</b>					
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>					
<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>		
ENGL 101	English Composition I .....	3	3		
MATH 102	College Algebra .....	3	3		
SPCH 143	Speech .....	3	3		
<i>The Reading Intensive requirement may be met by SURV 201 or 240.</i>					
<i>The Writing Intensive requirement may be met by SURV 250.</i>					
<i>The Speaking Intensive requirement may be met by SURV 240 or 280.</i>					
<i>The Mathematics Intensive requirement may be met by MATH 102 or by passing a mathematics assessment examination.</i>					
<b>Liberal Education Core</b>		<b>15-16</b>	<b>27-28</b>		
ENGL 102	English Composition II .....	- 3	-		
ERTH 115	Physical Geology <sup>1</sup> .....	3	3		
ERTH 115L	Physical Geology Laboratory <sup>1</sup> .....	2	2		
MATH 115	Survey of Calculus I.....	-	3		
PFWL 100	Lifetime Fitness/Wellness -or-				
PFWL 115	Concepts in Wellness -and-				
HLTH 211	First Aid .....	2-3	2-3		
PHYS 218	Essentials of General Physics .....	5	5		
	Humanities Elective – Common Core List .....	-	3		
	Social Science Elective(s) – Core List.....	3	6		
<i>Computer Skills are enhanced by ARCH 141.</i>					
		<b>70-71</b>	<b>80 -81</b>		

<sup>1</sup> Recommended earth science elective for all surveying majors.

**SURVEYING TECHNOLOGY – CIVIL DRAFTING/CAD CONCENTRATION 8511**  
**A Two-Year Transfer Program Leading to the A.A.S. Degree**

The Civil Drafting/CAD Technicians may be employed in various capacities by consulting engineers, contractors, public utility companies, petroleum and coal industries, land surveyors, highway commissions, and various governmental agencies. Specific employment opportunities include computer-generated drawings from surveyed data and/or engineering design project.

	<b>Credit Hours</b>
<b>Major Program Requirements</b>	<b>43</b>
ARCH 110 Fundamentals of Architectural Drawing .....	5
ARCH 130 Architectural Rendering and Illustration.....	3
ARCH 141 Introduction to Architectural CAD .....	4
ARCH 221 Advanced Architectural Software Applications .....	4
DRAF 120 Computers for Technology .....	2
SURV 100 Surveying Fundamentals -or-	
SURV 181 Site Surveying and Planning .....	3
SURV 125 Land Survey Systems.....	3
SURV 155 Topographic Surveying and Mapping .....	3
SURV 165 Instrumentation and Control Surveying .....	4
SURV 201 Boundary Surveying and Legal Aspects .....	4
SURV 240 Subdivision Design and Layout .....	4
SURV 270 Surveying Applications Using Auto CAD and Related Software..	4

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition I .....	3
MATH 102 College Algebra .....	3
SPCH 143 Speech .....	3

*The Reading Intensive requirements may be met by SURV 240.*

*The Writing Intensive requirement may be met by SURV 201.*

*The Speaking Intensive requirement may be met by SURV 201 and SURV 240.*

*The Mathematics Intensive requirement may be met by MATH 104 or by passing a mathematics assessment examination.*

<b>Liberal Education Core</b>	<b>19-20</b>
ERTH 112 Geographic Information Systems (GIS).....	3
MATH 104 Trigonometry .....	3
PFWL 100 Lifetime Fitness/Wellness -or-	
PFWL 115 Concepts in Wellness -and-	
HLTH 211 First Aid .....	2-3
PHYS 218 Essentials of General Physics .....	5
Science Elective – Common Core List.....	3
Social Science Elective – Core List .....	3

*Computer Skills are enhanced by DRAF 120. \_*

<b>Recommended Sequence of Courses</b>	
<i>(This sequence assumes any necessary developmental requirements have been met.)</i>	
<b>Semester I</b>	
ARCH 110 .....	5
ARCH 141 .....	4
DRAF 120 .....	2
ENGL 101 .....	3
SURV 100/181 .....	3
SURV 125 .....	3
Total Hours: 20	
<b>Semester II</b>	
ARCH 130 .....	3
MATH 102 .....	3
SPCH 143 .....	3
SURV 155 .....	3
SURV 165 .....	4
Total Hours: 16	
<b>Semester III</b>	
ARCH 221 .....	4
MATH 104 .....	3
PFWL 100 or PFWL 115/ HLTH 211 .....	2-3
SURV 201(W/S) .....	4
SURV 270 .....	4
Total Hours: 17-18	
<b>Semester IV</b>	
ERTH 112 .....	3
PHYS 218 .....	5
SURV 240(R/S) .....	4
Science Elective .....	3
Soc Sci Elective .....	3
Total Hours: 18	

**71-72**

**TECHNOLOGY 8000**  
**A Bachelor of Science in Technology**

The Technology majors will develop enhanced skills in their area of technical expertise, research advancements in their technical specialty, utilize modern technical applications, and fabricate advanced technical projects. They will also gain skill sets in ethics, business management, professional relationships, manufacturing processes, and supervisory teamwork. Graduates of this technology degree program will find enhanced employment opportunities in career fields that utilize project control, industrial applications, technical supervision, manufacturing technologies, and other advanced technical specializations.

Admission into this baccalaureate degree program requires the prospective student to possess an A.A.S./A.S. degree from an approved technology program. Acceptance into this program will be granted through the approval of the Technology Baccalaureate Degree Department Chair and the Dean of Technology. There are five concentrations associated with the Baccalaureate program: Advanced Manufacturing, Industrial Development, Surveying Management, Information Technology, and Career/Tech Education.

Students that have received an AAS/AS degree in the following programs can transition into the Baccalaureate Degree program or specific concentration areas in the Baccalaureate Degree Program:

<u>AAS/AS Degree Programs</u>	<u>BS Degree Program or Concentration(s)</u>
Architectural Studies Technology/CAD	Technology
Automotive Technology	Technology
Aviation Flight Technology – Airway Science Concentration	Technology
Collision Repair and Refinishing	Technology
Computer Integrated Manufacturing (Robotics) Technology	Technology
Computer Integrated Manufacturing Tech - Industrial Maintenance Concentration	Technology
Construction Technology	Technology
Construction – Building Materials Marketing Concentration	Technology
Diesel Technology	Technology
Drafting and Design/CAD	Technology
Education, Technology Major	Technology or Career/Technical Education
Electronics Technology (Electronics Technician)	Technology
Electronics - Biomedical Technician Concentration	Technology
Electronics - Computer Networking Specialist	Technology
Electronics - Computer Repair Technician Technology Concentration	Technology
Electronics - Laser and Electro-Optics Technology Concentration	Technology
General Technology	Technology or Industrial Development
Machine Trades Technology – (Tool and Die)	Technology or Advanced Manufacturing
Machine Trades Technology - Injection Mold Tooling Concentration	Technology
Printing Technology	Technology
Surveying Technology	Technology or Surveying Management
Surveying Technology - Civil Drafting/CAD Concentration	Technology
Information Technology	Technology or Information Technology

<b>Major Program Requirements<sup>1</sup></b>	<b>Credit Hours</b>
	<b>38</b>
CNST 421 Facilities Management (Electrical/Hydraulic/HVAC/Pneumatic) .	3
MGMT 305 Principles of Management .....	3
MGMT 341 Human Resource Management .....	3
MGMT 433 Organizational Management .....	3
PRDM 357 Total Quality Management .....	3
TECH 310 Technology Project Applications I.....	5
TECH 360 Technology Project Applications II .....	5
TECH 410 Technology Project Research I <sup>2</sup> .....	5
TECH 455 Problem Solving .....	3
TECH 490 Technology Project Research II: Capstone .....	5

<i><b>Recommended Sequence of Courses</b></i> (This sequence assumes any necessary developmental requirements have been met.)
<b>Semester I</b>
ENGL 101 .....3
MATH 102(M) .....3
AAS/AS Course ..... <u>9-15</u>
Total Hours: 15-21

(Continued on the following page)

<sup>1</sup> Some courses listed as Major Program Requirements will be replaced by courses listed in a concentration.

<sup>2</sup> SURV 410 Surveying Computations and Adjustments will substitute for TECH 410 in the Survey Technology Management Concentration.

## General Education Requirements

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>
ENGL 101 English Composition I .....	3
MATH 102 College Algebra .....	3
SPCH 143 Speech -or-	
SPCH 148 Interpersonal Communications .....	3

*The Reading and Writing Intensive requirements may be met by designated courses in areas of concentration or TECH 360.*

*The Speaking Intensive requirement may be met by designated courses in areas of concentration or TECH 490.*

*The Mathematics Intensive requirement may be met by MATH 102 or by passing a mathematics assessment examination.*

<b>Liberal Education Core<sup>1</sup></b>	<b>38-40</b>
ENGL 102 English Composition II -or-	
ENGL 108 Technical Writing .....	3
PFWL 100 Lifetime Fitness/Wellness -or-	
PFWL 115 Concepts in Wellness -and-	
HLTH 211 First Aid .....	2-3
PHIL 212 Introduction to Ethics.....	3
PHIL 313 Contemporary Ethical Issues .....	3
SPAN 100 Basic Conversational Spanish .....	2
TECH 300 Workplace Diversity .....	3
Directed Elective .....	3
Humanities Elective - Common or Broad Core List.....	3
Lab Sciences (appropriate to concentration) <sup>2</sup> .....	7-8
Directed History Elective .....	3
Social Science Elective(s) – Core List.....	6

<b>Semester II</b>	
ENGL 102/108 .....	3
SPCH 143/148 .....	3
AAS/AS Course .....	9-13
Total Hours:	15-19
<b>Semester III</b>	
Phys Sci Elec .....	3-5
AAS/AS Course .....	12-15
Total Hours:	15-20
<b>Semester IV</b>	
PFWL 100 .....	2
Soc Sci Elective.....	3
AAS/AS Course .....	10-12
Total Hours:	15-17
<b>Semester V</b>	
MGMT 305 .....	3
TECH 310.....	5
Directed Elec .....	3
Humanities Elec .....	3
Total Hours:	14
<b>Semester VI</b>	
MGMT 433.....	3
PHIL 212 .....	3
TECH 300.....	3
TECH 360.....	5
Soc Sci Elec.....	3
Total Hours:	17
<b>Semester VII</b>	
PHIL 313 .....	3
PRDM 357 .....	3
SPAN 100 .....	2
TECH 410.....	5
Dir Hist Elec.....	3
Total Hours:	16
<b>Semester VIII</b>	
CNST 421 .....	3
MGMT 341.....	3
TECH 455.....	3
TECH 490 .....	5
Bio Sci Elec .....	3-4
Total Hours:	17-18
<b>Total Cr Hrs: 124-142</b>	

(Continued on the following page)

<sup>1</sup> The Liberal Education Core in some Concentrations may include additional hours.

<sup>2</sup> One course must be a physical science course and one a biological science course. One of these two courses must be a laboratory science selected from the AA/AS Science and Mathematics Common Core.

<b><i>Advanced Manufacturing Baccalaureate Concentration 8001</i></b>	<b>34</b>
DRAF 370 Pro/ENGINEER for Advanced Machinists .....	3
MTTD 145 Quality Assurance .....	3
MTTD 282 Cutting Tools Techniques and Geometry .....	2
MTTD 287 HAAS Machine Tool Maintenance .....	2
MTTD 380 Advanced Manufacturing CAD/CAM/CNC I .....	12
MTTD 385 Advanced Manufacturing CAD/CAM/CNC II .....	12
<b><i>Career/Technical Education Baccalaureate Concentration 8005</i></b>	<b>24</b>
EDUC 200 Computer Technology for Teachers .....	3
EDUC 242 Educational Psychology .....	3
EDUC 291 Introduction to Exceptionalities .....	3
EDUC 292 Foundations of Education .....	3
EDUC 310 Management of Classroom Behavior .....	3
EDUC 340 Learning Disabilities .....	3
EDUC 372 Teaching in the Inclusive Classroom .....	3
EDUC 374 Classroom Assessment .....	3
<b><i>Industrial Development Baccalaureate Concentration 8002</i></b>	<b>12</b>
MGMT 305 Principles of Management .....	3
MGMT 341 Human Resource Management .....	3
MGMT 433 Organizational Management .....	3
PRDM 357 Total Quality Management .....	3
<b><i>Surveying Management Baccalaureate Concentration 8003</i></b>	<b>21</b>
MGMT 433 Organizational Management Operations .....	3
PRDM 357 Total Quality Management .....	3
SURV 310 Supervising Survey Projects .....	5
SURV 360 Surveying Data Acquisition and GIS .....	5
SURV 410 Surveying Computations and Adjustments .....	5
<b><i>Information Technology Baccalaureate Concentration 8004</i></b>	<b>24</b>
COMP 310 Managing Information Technology .....	3
COMP 320 Operating Systems .....	3
COMP 330 Data Structures .....	3
COMP 410 Data Security and Disaster Recovery .....	3
COMP 420 Special Topics/Current Topics .....	3
COMP 430 Advanced Systems Development .....	3
MGMT 305 Principles of Management .....	3
MGMT 450 Issue Analysis .....	3

(Continued on the following page)

**Recommended Sequence of Courses for Concentration Areas follow: (Each sequence assumes any necessary developmental requirements have been met.)**

<b>ADVANCED MANUFACTURING 8001</b>	<b>INDUSTRIAL DEVELOPMENT 8002</b>	<b>SURVEYING MANAGEMENT 8003</b>	<b>INFORMATION TECHNOLOGY 8004</b>	<b>CAREER/TECH EDUCATION 8005</b>
<b>Semester I</b> DRAF 101 .....3 ENGL 101 .....3 AAS/AS Courses .....14 Total Hours: 20	<b>Semester I and II</b> DRAF 120 .....2 ENGL 101 .....3 Technical Elec .....41 Total Hours: 46	<b>Semester I</b> ENGL 101 .....3 MATH 102(M) .....3 AAS/AS Courses 9-15 Total Hours: 15-21	<b>Semester I</b> AAS/AS Courses ..... 9 ENGL 101 ..... 3 MATH 101 ..... 3 SOCL 151 ..... 3 Total Hours: 18	<b>Semester I and II</b> DRAF 120 .....2 ENGL 101 .....3 AAS/AS Tech Elec 38 Total Hours: 43
<b>Semester II</b> ENGL 102/108 .....3 MATH 101 .....3 MTIM 165 .....4 MTTD 115 .....4 MTTD 135 .....2 MTTD 135L .....1 Soc Sci Elec .....3 Total Hours: 20		<b>Semester II</b> ENGL 102/108 .....3 SPCH 143/148 .....3 AAS/AS Courses 9-13 Total Hours: 15-19	<b>Semester II</b> ENGL 102/108 ..... 3 PFWL 100 ..... 2 SPCH 143/148 .....3 AAS/AS Courses ..... 9 Total Hours: 17	
<b>Semester III</b> MTTD 200 .....8 MTTD 205 .....2 MTTD 225 .....4 MTTD 225L .....1 PFWL 100 ..... 2 SPCH 143/148 .....3 History Elec .....3 Total Hours: 23	<b>Semester III</b> ENGL 102/108 .....3 MATH 102 .....3 PFWL 100 or PFWL 115/ HLTH 211 ..... 2-3 SPCH 143/148 .....3 Soc Sci Elec ..... 3 Total Hours: 14-15	<b>Semester III</b> Phys Sci Elec .....3-5 AAS/AS Crs .....12-15 Total Hours: 15-20	<b>Semester III</b> AAS/AS Crs ..... 14-15 LFSC 100/ Lab Sci ..... 4 Total Hours: 18-19	<b>Semester III</b> ENGL 102/108 .....3 MATH 101 .....3 PFWL 100 or PFWL 115/ HLTH 211 ..... 2-3 SPCH 143/148 .....3 Soc Sci Elec ..... 3 Total Hours: 14-15
<b>Semester IV</b> MTTD 235 .....4 MTTD 235L .....1 MTTD 255 (R/W/S)....8 PHYT 101/ PSCI 100 .....3-4 Hum Elec .....3 Soc Sci Elec ..... 3 Total Hours: 22-23	<b>Semester IV</b> For Lang Elec .....4 Humanities Elec .....3 Soc Sci Elective ..... 3 Lab Sci Elec ..... 3 Total Hours: 13	<b>Semester IV</b> PFWL 100 ..... 2 Soc Sci Elective ..... 3 AAS/AS Crs .....10-12 Total Hours: 15-17	<b>Semester IV</b> COMP 295 (R/W/S)..... 3 ERTH 100/ Lab Sci ..... 4 Humanities Elec ..... 3 Soc Sci Elective ..... 3 AAS/AS Courses ..... 3 Total Hours: 16	<b>Semester IV</b> Directed Elec .....3 Humanities Elec .....3 Soc Sci Elective .....3 Lab Sci Elec ..... 3 Total Hours: 12
<b>Semester V</b> MTTD 145 .....3 MTTD 282 .....2 MTTD 380 .....12 Directed Elec .....3 Total Hours: 20	<b>Semester V</b> MGMT 305 .....3 TECH 310 ..... 5 Directed Elect ..... 3 Dir Hist Elec ..... 3 Total Hours: 14	<b>Semester V</b> SURV 310 ..... 5 TECH 310 ..... 5 Bio Sci Elec .....3-4 Directed Elec ..... 3 Total Hours: 16-17	<b>Semester V</b> COMP 310 .....3 MATH 102 ..... 3 MGMT 305 ..... 3 TECH 300 ..... 3 TECH 310 ..... 5 Total Hours: 17	<b>Semester V</b> EDUC 242 .....3 TECH 300 ..... 3 TECH 310 ..... 5 Education Elec .....3 Bio Science Elec .....4 Total Hours: 18
<b>Semester VI</b> DRAF 370 .....3 MTTD 287 .....2 MTTD 385 ..... 12 PRDM 357 ..... 3 Total Hours: 20	<b>Semester VI</b> MGMT 433 .....3 PHIL 212 .....3 TECH 300 ..... 3 TECH 360 ..... 5 Total Hours: 14	<b>Semester VI</b> PHIL 212 .....3 SURV 360 .....5 TECH 360 ..... 5 Humanities Elec ..... 3 Total Hours: 16	<b>Semester VI</b> COMP 320 .....3 COMP 330 .....3 PHIL 212 ..... 3 TECH 360 ..... 5 Soc Sci Elective ..... 3 Total Hours: 17	<b>Semester VI</b> EDUC 372 .....3 MATH 102 .....3 TECH 360 ..... 5 Education Elec .....3 Science Elec ..... 3-5 Total Hours: 17-19
<b>Semester VII</b> MATH 102 .....3 MGMT 305 .....3 PHIL 212 .....3 TECH 300 ..... 3 TECH 410 ..... 5 Total Hours: 17	<b>Semester VII</b> PHIL 313 .....3 PRDM 357 .....3 TECH 410 ..... 5 Total Hours: 11	<b>Semester VII</b> PHIL 313 .....3 PRDM 357 ..... 3 SURV 410 ..... 5 TECH 300 ..... 3 Dir Hist Elec ..... 3 Total Hours: 17	<b>Semester VII</b> COMP 410 .....3 PHIL 313 ..... 3 TECH 410 ..... 5 Directed Elec ..... 3 Dir Hist Elec ..... 3 Total Hours: 17	<b>Semester VII</b> EDUC 310 .....3 PHIL 212 .....3 TECH 410 ..... 5 History Elec ..... 3 Total Hours: 14
<b>Semester VIII</b> PHIL 313 .....3 TECH 455 .....3 TECH 490 .....5 Bio Sci Elec ..... 3 Total Hours: 14	<b>Semester VIII</b> MGMT 341 .....3 TECH 455 ..... 3 TECH 490 ..... 5 Bio Sci Elec ..... 3-4 Total Hours: 14-15	<b>Semester VIII</b> MGMT 433 ..... 3 SPAN 100 ..... 2 TECH 490 ..... 5 TECH 455 ..... 3 Soc Sci Elec ..... 3 Total Hours: 16	<b>Semester VIII</b> COMP 420 .....3 COMP 430 .....3 MGMT 450 .....3 TECH 455 ..... 3 TECH 490 ..... 5 Total Hours: 17	<b>Semester VIII</b> EDUC 340 .....3 EDUC 374 .....3 PHIL 313 .....3 TECH 455 ..... 3 TECH 490 ..... 5 Total Hours: 17
<b>Total Cr Hr ..... 156-157</b>	<b>Total Cr Hr .....126-128</b>	<b>Total Cr Hr .... 125-143</b>	<b>Total Cr Hr 137-138</b>	<b>Total Cr Hr 135-138</b>



<b>Semester VII</b>	<b>Semester VII</b>
Concentration ..... 4	Concentration ..... 4
ABCC 126 ..... 2	ABCC 126 ..... 2
PHIL 212(R/W/S) ... 3	Total Hours: 6
Total Hours: 9	
<b>Semester VIII</b>	<b>Semester VIII</b>
Concentration ..... 4	Concentration ..... 4
ABCC 127 ..... 2	ABCC 127 ..... 2
PFWL 100 ..... 2	Total Hours: 6
Total Hours: 8	

<i>Apprenticeship: Electrical Concentration 8551</i>	<i>Apprenticeship: Carpentry Concentration 8552</i>	<i>Apprenticeship: HVAC Concentration 8553</i>
<b>Semester II</b>	<b>Semester II</b>	<b>Semester II</b>
APPE 101 Introduction to Electrical Blueprints ..... 1	APPC 101 Opportunities in Construction ..... 1	APPH 101 Basic Electricity for HVAC ..... 1
APPE 111 Electrical Theory, Components, & Applications I ..... 3	APPC 111 Carpentry Applications I ..... 3	APPH 111 Introduction to Heating & Cooling Practices ..... 3
<b>Semester III</b>	<b>Semester III</b>	<b>Semester III</b>
APPE 112 Electrical Theory, Components, & Applications II ..... 4	APPC 112 Carpentry Applications II ..... 4	APPH 112 HVAC Applications I ..... 4
<b>Semester IV</b>	<b>Semester IV</b>	<b>Semester IV</b>
APPE 113 Electrical Theory, Components, & Applications III ..... 4	APPC 113 Carpentry Applications III ..... 4	APPH 113 HVAC Applications II ..... 4
<b>Semester V</b>	<b>Semester V</b>	<b>Semester V</b>
APPE 114 Electrical Theory, Components, & Applications IV ..... 4	APPC 114 Carpentry Applications IV ..... 4	APPH 114 HVAC Applications III ..... 4
<b>Semester VI</b>	<b>Semester VI</b>	<b>Semester VI</b>
APPE 115 Electrical Theory, Components, & Applications V ..... 4	APPC 115 Carpentry Applications V ..... 4	APPH 115 HVAC Applications IV ..... 4
<b>Semester VII</b>	<b>Semester VII</b>	<b>Semester VII</b>
APPE 116 Electrical Theory, Components, & Applications VI ..... 4	APPC 116 Carpentry Applications VI ..... 4	APPH 116 HVAC Applications V ..... 4
<b>Semester VIII</b>	<b>Semester VIII</b>	<b>Semester VIII</b>
APPE 117 Electrical Theory, Components, & Applications VII ..... 4	APPC 117 Carpentry Applications VII ..... 4	APPH 117 HVAC Applications VI ..... 4
Total Hours: 28	Total Hours: 28	Total Hours: 28

<i>Apprenticeship: Plumbing Concentration 8554</i>	<i>Apprenticeship: Sheet Metal Concentration 8555</i>	<i>Apprenticeship: Pipefitter Concentration 8556</i>
<b>Semester II</b>	<b>Semester II</b>	<b>Semester II</b>
APPP 101 Introduction to the Plumbing Trade ..... 1	APPS 101 Introduction to the Sheet Metal Trade ..... 1	APPF 101 Introduction to the Pipefitter Trade ..... 1
APPP 111 Introduction to Plumbing Practices ..... 3	APPS 111 Introduction to Sheet Metal Practices ..... 3	APPF 111 Introduction to Pipefitter Practices ..... 3
<b>Semester III</b>	<b>Semester III</b>	<b>Semester III</b>
APPP 112 Plumbing Applications I ..... 4	APPS 112 Sheet Metal Applications I ..... 4	APPF 112 Pipefitter Applications I ..... 4
<b>Semester IV</b>	<b>Semester IV</b>	<b>Semester IV</b>
APPP 113 Plumbing Applications II ..... 4	APPS 113 Sheet Metal Applications II ..... 4	APPF 113 Pipefitter Applications II ..... 4
<b>Semester V</b>	<b>Semester V</b>	<b>Semester V</b>
APPP 114 Plumbing Applications III ..... 4	APPS 114 Sheet Metal Applications III ..... 4	APPF 114 Pipefitter Applications III ..... 4
<b>Semester VI</b>	<b>Semester VI</b>	<b>Semester VI</b>
APPP 115 Plumbing Applications IV ..... 4	APPS 115 Sheet Metal Applications IV ..... 4	APPF 115 Pipefitter Applications IV ..... 4
<b>Semester VII</b>	<b>Semester VII</b>	<b>Semester VII</b>
APPP 116 Plumbing Applications V ..... 4	APPS 116 Sheet Metal Applications V ..... 4	APPF 116 Pipefitter Applications V ..... 4
<b>Semester VIII</b>	<b>Semester VIII</b>	<b>Semester VIII</b>
APPP 117 Plumbing Applications VI ..... 4	APPS 117 Sheet Metal Applications VI ..... 4	APPF 117 Pipefitter Applications VI ..... 4
Total Hours: 28	Total Hours: 28	Total Hours: 28



**GENERAL STUDIES - TECHNOLOGY APPRENTICESHIP 8901**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**

This program is designed for non-traditional students who have attained Journeyman or equivalent in a skilled trade and wish to fulfill the basic requirements for an Associate degree. The program provides flexibility by allowing students to receive credit for training received through a certified Department of Labor apprenticeship program (7200 hours minimum) or an evaluation conducted by Vincennes University. In addition to these credits, students must complete selected general education courses and fulfill a minimum residency requirement of no less than fifteen credit hours through Vincennes University.

**Guidelines for Technology Apprenticeship/Journeyman Credit**

Apprenticeship/Journeyman credit up to 45 credit hours may be granted in one of three ways. The information below explains the guidelines for each.

- I. Persons who have completed a U.S. Department of Labor, Bureau of Apprenticeship and Training Program (minimum of 7200 hours) may be granted up to 45 credit hours by:
  1. Making application and being accepted as a Vincennes University student;
  2. Completing Technology Apprenticeship/Journeyman Credit Approval Form A;
  3. Submitting a copy of a U.S. Department of Labor BAT Journeyman Certificate; and
  4. Submitting payment for up to 45 credit hours at \$25.00 per credit hour.
  
- II. Persons who have completed an apprenticeship program approved by an industrial association such as: "The Associated Builders & Contractors of Indiana," "The Independent Contractors Association," "The National Tooling & Machining Association," etc. The program must consist of a minimum of 576 clock hours of related classroom training and 8000 hours of on-the-job training. Up to 45 credit hours may be granted by:
  1. Making application and being accepted as a Vincennes University student;
  2. Completing Technology Apprenticeship/Journeyman Credit Approval Form B;
  3. Submitting a copy of an Industrial Association Journeyman certificate; and
  4. Submitting payment for up to 45 credit hours at \$25.00 per credit hour.
  
- III. Persons who have not participated in a formal apprenticeship program but have earned Journeyman Status through years of work experience (5 or more) may be granted up to 37 credit hours by:
  1. Making application and being accepted as a Vincennes University student;
  2. Completing Technology Apprenticeship/Journeyman Credit Approval Form C;
  3. Providing the following documentation:
    - a. Detailed narrative describing the competencies learned through on-the-job experience,
    - b. Letters from employers stating the length of employment and describing competencies demonstrated on-the-job,
    - c. Trade Certifications earned, and
    - d. Credit earned in Post-Secondary Technical courses that are directly trade related; and
  4. Submitting payment for up to 37 credit hours at \$25.00 per credit hour.

*(Continued on the following page)*

	Credit Hours - A.A.S.	A.S.
<b>Major Program Requirements</b>	<b>45</b>	<b>45</b>
Technology credit as determined by a certified apprenticeship program .....	20-37	20-37
Technical Electives related to the area of certification .....	6-23	6-23

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>	<b>9</b>	<b>9</b>
ENGL 101 English Composition I .....	3	3
MATH 101 Intermediate Algebra.....	-	3
MATT 106 Applied Mathematics II .....	3	-
SPCH 148 Interpersonal Communication .....	3	3

*The Reading, Writing and Speaking Intensive requirements may be met by major courses to be designated by your advisor.*

*The Mathematics Intensive requirement may be met by MATH 104 for A.S. or by a second mathematics course or by passing a mathematics assessment examination for the A.A.S.*

<b>Liberal Education Core</b>	<b>14</b>	<b>20</b>
ENGL 102 English Composition II .....	-	3
MATH 104 Trigonometry <sup>1</sup> .....	-	3
PFWL 100 Lifetime Fitness/Wellness .....	2	2
PSYC 142 General Psychology .....	3	3
Laboratory Science Elective – Common Core List .....	3	3
Humanities Elective – Common Core List .....	-	3
Social Science Elective – Core List .....	3	3
Humanities Elective – Broad Core List .....	3	-

*Computer Skills are enhanced by Computers Across the Curriculum. \_\_\_*

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<i>Recommended Sequence of Courses for A.A.S.</i> (This assumes any necessary developmental requirements have been met.)	<i>Recommended Sequence of Courses for A.S.</i> (This assumes any necessary developmental requirements have been met.)
<b>Semester I and II</b>	<b>Semester I and II</b>
Technology credit as determined by certified apprenticeship program .....45 ENGL 101 .....3 Total Hours: 48	Technology credit as determined by certified apprenticeship program .....45 ENGL 101 .....3 Total Hours: 48
<b>Semester II</b>	<b>Semester III</b>
MATT 106.....3 SPCH 148 .....3 Humanities Elec .....3 Total Hours: 9	ENGL 102 .....3 MATH 101 .....3 PSYC 142 .....3 SPCH 148 .....3 Total Hours: 12
<b>Semester IV</b>	<b>Semester IV</b>
PFWL 100 .....2 PSYC 142 .....3 Lab Science Elec .....3 Soc Sci Elective.....3 Total Hours: 11	MATH 104(M) .....3 PFWL 100 .....2 Humanities Elec.....3 Soc Sci Elective .....3 Lab Science Elec.....3 Total Hours: 14

<sup>1</sup> Students must earn a grade of A or B in MATH 101 in order to enroll in MATH 104 without first completing MATH 102.

**TRACTOR-TRAILER DRIVER TRAINING 8520**  
**An Eight-Week Certificate of Program Completion**

This program is an eight-week training course designed to prepare students to enter the tractor-trailer driver marketplace at an entry level driving position. Included in the training are 80 hours of classroom instruction relating to federal regulations governing commercial motor vehicle operation, inspection procedures, proper maintenance practices and vehicle safety; 80 hours of instruction on the backing range learning to master a variety of backing skills; and, 160 hours of road driving instruction. Students can expect to pull loaded van trailers under a variety of conditions, including two-lane roads, expressways, night driving, hilly terrain and driving city streets during heavy traffic. Students can expect to spend at least 45 hours behind the wheel on the backing range and road driving combined, logging approximately 30 hours or 1000 miles of road driving. Classes begin at the start of the fall semester, fall semester mid-term, spring semester, spring semester mid-term, and the start of the first summer session. Admission requirements are (1) must submit to and pass a DOT physical and drug screen, (2) have a high school diploma or GED, and (3) must reach age 18 prior to operation of vehicles on public streets.

		<b>Credit Hours</b>
TTDT 100	Basic Commercial Motor Vehicle Operation.....	3
TTDT 125	Preventive Maintenance .....	3
TTDT 150	Tractor-Trailer Basic Control Skills .....	5
TTDT 175	Tractor-Trailer Road Driving.....	10

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**TRACTOR-TRAILER DRIVER TRAINING – EXTERNSHIP 8521**  
**An Eight-Week Certificate of Program Completion**  
**With an Externship**

This program is an eight-week training course designed to prepare students to enter the tractor-trailer driver marketplace at an entry level driving position. The student will spend the first four weeks in a traditional driver training format at VU and the last four weeks in an externship with an approved motor carrier. Included in the training are 80 hours of classroom instruction relating to federal regulations governing commercial motor vehicle operation, inspection procedures, proper maintenance practices and vehicle safety; 90 hours of basic off highway skills and road driving skills; and a minimum of 150 hours of refining driving, backing and vehicle inspection skills. The student will complete a company orientation program of the carrier's choice; will log a minimum of 100 supervised driving hours while hauling loads relative to the carrier's business and conduct routine vehicle inspections and backing exercises on a daily basis. Upon completion of this externship, the student will return to a Vincennes University CDL training site for a two-hour re-evaluation of skills relative to inspection and basic operation of the Class "A" commercial vehicle. Upon successful completion of the re-evaluation and receipt of all required documentation, student will be awarded a certificate of completion from the Tractor-Trailer Driver Training program. Classes begin at the start of the fall semester, fall semester mid-term, spring semester, spring semester mid-term, and the start of the first summer session. Admission requirements are (1) must submit to and pass a DOT physical and drug screen, (2) have a high school diploma or GED, and (3) must reach age 21 prior to operation of vehicles on public streets.

		<b>Credit Hours</b>
TTDT 100	Basic Commercial Motor Vehicle Operation .....	3
TTDT 125	Preventive Maintenance .....	3
TTDT 151	Basic Control Skills.....	3
TTDT 176	Road Driving .....	3
TTDT 180	Tractor-Trailer Externship.....	<u>10</u>
		<b>22</b>

**TRACTOR-TRAILER DRIVER TRAINING – MOTOR COACH 8522**  
**A Certificate of Program Completion**

This program is a four-week training course designed to prepare students to obtain employment as motor coach drivers. Included in the training are 40 hours of classroom instruction relating to Federal Motor Carrier Safety Regulations and the Commercial Driver License (CDL) manual. Also covered are hours of service regulations, pre-trip inspection procedures, backing skills, highway-driving skills and the National Safety Council’s Defensive Driving Course. Students can expect to receive approximately 20 hours behind the wheel instruction. Students will complete the course by submitting to a road test conforming to CDL guidelines and will be tested by a CDL examiner as required by state regulations to receive a Commercial Driver License. Classes will be held on an arranged basis. Admission requirements are (1) must submit to and pass a DOT physical and drug screen prior to enrollment, (2) have a high school diploma or GED, and (3) must be age 21 prior to operation of vehicles on public streets.

	<b>Credit Hours</b>
TTDT 110 Basic Motor Coach Preparation .....	3
TTDT 185 Motor Coach Operation.....	<u>3</u>
	<b>6</b>

**VIRTUAL ASSISTANT 5611**  
**A Certificate of Program Completion**

An administrative virtual assistant is an experienced individual who provides necessary office skills and expertise in a variety of business settings. This certificate program is designed to teach students how to support and operate a small business successfully. Administrative virtual assistants enjoy the opportunity of a ‘mobile’ office.

	<b>Credit Hours</b>																													
<b>Major Program Requirements</b>																														
ACCT 100 Basic College Accounting -or-		<table border="1"> <tr> <td align="center" colspan="2"><i>Recommended Sequence of Courses</i></td> </tr> <tr> <td colspan="2">(This sequence assumes any necessary developmental requirements have been met.)</td> </tr> <tr> <td align="center" colspan="2"><b>Semester I</b></td> </tr> <tr> <td>COMP 146 .....</td> <td align="right">3</td> </tr> <tr> <td>CWEB 151 .....</td> <td align="right">3</td> </tr> <tr> <td>ENGL 101 .....</td> <td align="right">3</td> </tr> <tr> <td>ENTR 121 .....</td> <td align="right">3</td> </tr> <tr> <td>Elective.....</td> <td align="right"><u>3</u></td> </tr> <tr> <td align="right" colspan="2">Total Hours: 15</td> </tr> <tr> <td align="center" colspan="2"><b>Semester II</b></td> </tr> <tr> <td>ACCT 100 or 201.....</td> <td align="right">3</td> </tr> <tr> <td>OADM 290 .....</td> <td align="right">3</td> </tr> <tr> <td>Electives .....</td> <td align="right"><u>6</u></td> </tr> <tr> <td align="right" colspan="2">Total Hours: 12</td> </tr> </table>	<i>Recommended Sequence of Courses</i>		(This sequence assumes any necessary developmental requirements have been met.)		<b>Semester I</b>		COMP 146 .....	3	CWEB 151 .....	3	ENGL 101 .....	3	ENTR 121 .....	3	Elective.....	<u>3</u>	Total Hours: 15		<b>Semester II</b>		ACCT 100 or 201.....	3	OADM 290 .....	3	Electives .....	<u>6</u>	Total Hours: 12	
<i>Recommended Sequence of Courses</i>																														
(This sequence assumes any necessary developmental requirements have been met.)																														
<b>Semester I</b>																														
COMP 146 .....	3																													
CWEB 151 .....	3																													
ENGL 101 .....	3																													
ENTR 121 .....	3																													
Elective.....	<u>3</u>																													
Total Hours: 15																														
<b>Semester II</b>																														
ACCT 100 or 201.....	3																													
OADM 290 .....	3																													
Electives .....	<u>6</u>																													
Total Hours: 12																														
ACCT 201 Principles of Accounting I .....	3																													
COMP 146 Personal Computer Configuration and Management .....	3																													
CWEB 151 Introduction to Web Graphics and Tools .....	3																													
ENGL 101 English Composition I .....	3																													
ENTR 121 Creating a Small Business .....	3																													
OADM 290 Virtual Assistant Seminar .....	3																													
<b>Choose 3 courses from the following:</b>																														
CWEB 213 Web-Based Electronic Commerce .....	3																													
OADM 161 Word Processing .....	3																													
OADM 232 Presentation Software .....	3																													
OADM 233 Spreadsheets .....	3																													
OADM 234 Databases .....	3																													
	<u>27</u>																													

**NOTE:** All students must satisfy the University’s minimal requirements through either placement tests or enrollment in ENGL 009 or 011, READ 009 and 011, and MATH 011, MATT 103, 105 or 109.

**WEB DEVELOPMENT 5750**  
**A Two-Year Program Leading to the A.A.S. Degree**

This program is designed to train students for necessary skills and hands-on experience for developing and managing Web applications for individuals, small businesses, and large corporations. Students will acquire the knowledge of HTML, programming, database, latest server-side technology such as PHP and ASP.NET, and Web server administration. Graduates of the program may find employment opportunities in Web design firms, large corporations, government agencies, academic organizations, and Internet companies.

	<b>Credit Hours</b>	
<b>Major Program Requirements 48</b>		
CNET 240 Web Server Management .....	3	<div style="text-align: center;"><b>Recommended Sequence of Courses</b></div> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr/> <div style="text-align: center;"><b>Semester I</b></div> <p>COMP 107 ..... 3            COMP 110 ..... 3            COMP 176 ..... 3            ENGL 101 ..... 3            HIST 125(R) ..... 3            PFWL 100 or PFWL 115/HLTH 211 .. 2-3            Total Hours: 17-18</p> <hr/> <div style="text-align: center;"><b>Semester II</b></div> <p>COMP 113 ..... 3            CWEB 151 ..... 3            ECON 100/201(R) .... 3            COMP 252 ..... 3            MATH 101 or Higher 3            SPCH 143 ..... 3            Total Hours: 18</p> <hr/> <div style="text-align: center;"><b>Semester III</b></div> <p>CNET 240 ..... 3            COMP 215 ..... 3            CWEB 215 ..... 3            DESN 215 ..... 3            ENGL 108 ..... 3            Science Elective ..... 3            Total Hours: 18</p> <hr/> <div style="text-align: center;"><b>Semester IV</b></div> <p>CWEB 211(R/W/S) .... 3            CWEB 220 ..... 3            CWEB 253 ..... 3            CWEB 254 ..... 3            CWEB 296(R/W/S) .... 3            OADM 266 ..... 3            Total Hours: 18</p>
COMP 107 Web Page Design .....	3	
COMP 110 Introduction to Computer Concepts .....	3	
COMP 113 Advanced Web Page Design .....	3	
COMP 176 Introduction to Visual Programming.....	3	
COMP 215 Database Management/SQL.....	3	
COMP 252 Introduction to Java Programming.....	3	
CWEB 151 Introduction to Web Graphics and Tools .....	3	
CWEB 211 Project Management .....	3	
CWEB 215 Dynamic Web Applications with PHP and MySQL .....	3	
CWEB 220 Web Application Development with ASP.NET .....	3	
CWEB 253 Advanced Web Development with Flash .....	3	
CWEB 254 Web Security and Ethical Issues .....	3	
CWEB 296 Web Development and Analysis .....	3	
DESN 215 Multimedia I.....	3	
OADM 266 Professional Business Image.....	3	
<b>General Education Requirements</b>		
<i>See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.</i>		
<b>Basic Skills Core 9</b>		
ENGL 101 English Composition I .....	3	
MATH 101 Intermediate Algebra or Higher .....	3	
SPCH 143 Speech .....	3	
<p><i>The Writing and Speaking Intensive requirements may be met by CWEB 211 or CWEB 296.</i></p> <p><i>The Reading Intensive requirement may be met by CWEB 211, CWEB 296, ECON 201 or HIST 125.</i></p> <p><i>The Mathematics Intensive requirement may be met by a subsequent mathematics course or by passing a mathematics assessment examination.</i></p>		
<b>Liberal Education Core 14-15</b>		
ECON 100 Elements of Economics -or-		
ECON 201 Microeconomics .....	3	
ENGL 108 Technical Writing .....	3	
HIST 125 History-American Technology .....	3	
PFWL 100 Lifetime Fitness/Wellness -or-		
PFWL 115 Concepts in Wellness -and-		
HLTH 211 First Aid .....	2-3	
Laboratory Science Elective – Common Core List .....	3	
<p><i>Computer Skills are enhanced by COMP 110. _</i></p>		
		<b>71-72</b>

**NOTE:** It is suggested that the student take COMP 175 Principles of Computer Programming.

**WEB PROGRAMMING 5753**  
**A Certificate of Program Completion**

This certificate is intended for students seeking employment as Internet Application Developers and Programmers. This program provides students with a general computer programming background with further detailed specialization in client-side and server-side Web technology. Classes in the program provide expertise in current programming languages, HTML, JavaScript, Cascading Style Sheet, DHTML, PHP, ASP.NET, Macromedia ActionScript, and visual Web Design and development tools.

	<b>Credit Hours</b>	
COMP 107 Web Page Design.....	3	<p style="text-align: center;"><i><b>Recommended Sequence of Courses</b></i></p> <p>(This sequence assumes any necessary developmental requirements have been met.)</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester I</b></p> <p>COMP 107 .....3            COMP 110 .....3            COMP 176 .....3            CWEB 151 ..... 3            DESN 215 ..... 3            Total Hours: 15</p> <hr style="border: 1px solid black;"/> <p style="text-align: center;"><b>Semester II</b></p> <p>COMP 113 .....3            COMP 252 .....3            CWEB 215 .....3            CWEB 253 .....3            Total Hours 12</p>
COMP 110 Introduction to Computer Concepts.....	3	
COMP 113 Advanced Web Page Design.....	3	
COMP 176 Introduction to Visual Programming.....	3	
COMP 252 Introduction to Java Programming.....	3	
CWEB 151 Introduction to Web Graphics and Tools.....	3	
CWEB 215 Dynamic Web Applications with PHP and MySQL.....	3	
CWEB 253 Advanced Web Development with Flash.....	3	
DESN 215 Multimedia I.....	3	
	<u>27</u>	

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in ENGL 009 or 011, READ 009 and 011, and MATH 011, MATT 103, 105 or 109.

**WEB PUBLISHING AND DESIGN 5453**  
**A One-Year Certificate of Program Completion**

The major goal for this program is to build a solid foundation in the design of home pages, proper advertising and marketing techniques, and presentation skills for the Internet. The students will gain the theory and practical methods of proper design utilizing a Windows environment. The production of attractive, easy-to-use links, correct use of color, and design of worthwhile content will enhance employment opportunities. No prior programming expertise is required; however, familiarity with personal computers and the Internet is beneficial.

	<b>Credit Hours</b>
COMP 107 Web Page Design .....	3
COMP 110 Introduction to Computer Concepts .....	3
COMP 113 Advanced Web Page Design.....	3
COMP 176 Introduction to Visual Programming.....	3
CWEB 151 Introduction to Web Graphics and Tools .....	3
DESN 120 Computer Illustration .....	3
DESN 200 Computer Imaging .....	3
DESN 215 Multimedia I.....	3
ENGL 101 English Composition I .....	3
—	<b>27</b>

<i><b>Recommended Sequence of Courses</b></i>	
(This sequence assumes any necessary developmental requirements have been met.)	
<b>Semester I</b>	
COMP 107 .....	3
COMP 110 .....	3
COMP 176 .....	3
DESN 120 .....	3
DESN 215 .....	<u>3</u>
Total Hours: 15	
<b>Semester II</b>	
COMP 113 .....	3
CWEB 151 .....	3
DESN 200 .....	3
ENGL 101 .....	<u>3</u>
Total Hours: 12	

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011 and MATH 011, MATT 103, 105 or 109.

**NOTE:** It is suggested that the student take COMP 175 Principles of Computer Programming.

**WELDING TECHNOLOGY 8541**  
**A Two-Year Program Leading to the A.A.S. or A.S. Degree**  
 PENDING ICHE APPROVAL

This comprehensive two-year A.S. or A.A.S. program is designed to prepare students for a career in the advanced welding profession, with the opportunity to transfer to a baccalaureate program. Major emphasis is placed on the preparation for American Welding Society Certification. Students are trained in OAW (Oxygen Acetylene Welding), SMAW (Shielded Metal Arc Welding), GMAW (Gas Metal Arc Welding), and GTAW (Gas Tungsten Arc Welding). Plasma arc cutting, oxyacetylene cutting, air carbon arc gouging, and print reading are covered. Advanced inspection and fabrication methods, along with automation are covered to achieve the extensive discipline demanded within the welding profession.

		Credit Hours - A.A.S.	A.S.
<b>Major Program Requirements</b>		<b>48</b>	<b>48</b>
CIMT 210	Welding Automation .....	3	3
DRAF 101	Introduction to Drafting .....	3	3
MTTD 105	Metallurgy and Industrial Blueprint Reading .....	2	2
MTTD 115	CNC Programming and Operations I.....	4	4
MTTD 135	Manufacturing Processes .....	2	2
MTTD 135L	Manufacturing Processes Laboratory.....	1	1
WELD 101	Oxy-Acetylene Welding .....	3	3
WELD 102	Shielded Metal Arc Welding I.....	3	3
WELD 103	Gas Metal Arc Welding .....	3	3
WELD 104	Gas Tungsten Arc Welding.....	3	3
WELD 105	Shielded Metal Arc Welding II .....	3	3
WELD 106	Welding Certification Review .....	3	3
WELD 212	Welding Inspection .....	5	5
WELD 215	Weld Fabrication I .....	5	5
WELD 225	Weld Fabrication II .....	5	5

**General Education Requirements**

*See pages 70 to 83 in this catalog for a complete description of the general education and assessment requirements.*

<b>Basic Skills Core</b>		<b>9</b>	<b>9</b>
ENGL 101	English Composition I.....	3	3
MATH 101	Intermediate Algebra <sup>1</sup> -or-		
MATT 106	Applied Mathematics II.....	3	3
SPCH 143	Speech -or-		
SPCH 148	Interpersonal Communications .....	3	3

*The Reading, Writing and Speaking Intensive requirements may be met by CIMT 210.*

*The Mathematics Intensive requirement may be met by MATH 101 or MATT 106 for A.A.S. or by MATH 101 for A.S. or by passing a mathematics assessment examination.*

<i>Recommended Sequence of Courses for A.A.S.</i>	<i>Recommended Sequence of Courses for A.S.</i>
(This assumes any necessary developmental requirements have been met.)	
Semester I	Semester I
DRAF 101 .....3 ENGL 101 .....3 MTTD 135 .....2 MTTD 135L.....1 WELD 101 .....3 WELD 102 .....3 WELD 103 .....3 Total Hours: 18	DRAF 101 .....3 ENGL 101 .....3 MTTD 135 .....2 MTTD 135L.....1 WELD 101 .....3 WELD 102 .....3 WELD 103 .....3 Soc Sci Elective ....3 Total Hours: 21
Semester II	Semester II
MATH 101 or MATT 106.....3 MTTD 105 .....2 MTTD 115 .....4 WELD 104 .....3 WELD 105 .....3 WELD 106.....3 Total Hours: 18	ENGL 102.....3 MATH 101.....3 MTTD 105 .....2 MTTD 115 .....4 WELD 104 .....3 WELD 105 .....3 WELD 106.....3 Total Hours: 21
Semester III	Semester III
SPCH 143 or SPCH 148 .....3 WELD 212 .....5 WELD 215 .....5 Hum/Math/Sci Soc Sci/Writ.....3 Soc Sci Elective ....3 Total Hours: 19	PHYT 101 or PSCI 101 .....3-4 SPCH 143 or SPCH 148 .....3 WELD 212 .....5 WELD 215 .....5 Soc Sci Elec .....3 Total Hours: 19-20

*(Continued on the following page)*

<sup>1</sup> A.S. students must select MATH 101.



<b>Liberal Education Core</b>		<b>15</b>	<b>21-22</b>
ENGL 102	English Composition II .....	-	3
CHEM 120	Chemistry of Hazardous Materials .....	3	3
HLTH 211	First Aid.....	2	2
PFWL 115	Concepts in Wellness .....	1	1
PHYT 101	Technical Physics -or-		
PSCI 101	Physical Science .....	-	3-4
Humanities Elective – Common Core List .....		-	3
Social Science Elective(s) – Core List.....		3	6
One course from two of the following areas:			
Humanities, Mathematics or Science – Broad Core			
List -or- Social Science or Writing – Core List .....		6	-

Computer Skills are enhanced by MTTD 115.

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Semester IV	Semester IV
CHEM 120 .....	CHEM 120 .....
CIMT 210(R/W/S) ...	CIMT 210(R/W/S) ...
HLTH 211 .....	HLTH 211 .....
PFWL 115 .....	PFWL 115 .....
WELD 225 .....	WELD 225 .....
Hum/Math/Sci	Humanities Elec .....
Soc Sci/Writ.....	Total Hours: 17
Total Hours: 17	

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**WELDING TECHNOLOGY CERTIFICATE 8540**  
**A One-Year Certificate of Graduation**

This intensive one-year program is designed to prepare graduates for gainful employment in the welding field. Emphasis is placed on preparation for AWS (American Welding Society) Certification. Students are trained in OAW (Oxygen Acetylene Welding), SMAW (Shielded Metal Arc Welding), GMAW (Gas Metal arc Welding), and GTAW (Gas Tungsten Arc Welding). plasma arc cutting, oxyacetylene cutting, air carbon arc gouging, and blueprint reading are also covered.

	<b>Credit Hours</b>
DRAF 101 Introduction to Drafting .....	3
DRAF 120 Computers for Technology .....	2
ENGL 101 English Composition I .....	3
MATT 105 Applied Mathematics I .....	4
MTTD 105 Metallurgy and Industrial Blueprint Reading .....	2
MTTD 135 Manufacturing Processes .....	2
MTTD 135L Manufacturing Processes Laboratory.....	1
WELD 101 Oxy-Acetylene Welding .....	3
WELD 102 Shielded Metal Arc Welding I .....	3
WELD 103 Gas Metal Arc Welding .....	3
WELD 104 Gas Tungsten Arc Welding .....	3
WELD 105 Shielded Metal Arc Welding II .....	3
WELD 106 Welding Certification Review .....	3
	<b>35</b>

<b>Recommended Sequence of Courses</b>	
(This sequence assumes any necessary developmental requirements have been met.)	
Semester I	
DRAF 101 .....	3
ENGL 101 .....	3
MTTD 105 .....	2
WELD 101 .....	3
WELD 102 .....	3
WELD 103 .....	3
Total Hours:	17
Semester II	
DRAF 120 .....	2
MATT 105 .....	4
MTTD 135 .....	2
MTTD 135L .....	1
WELD 104 .....	3
WELD 105 .....	3
WELD 106 .....	3
Total Hours:	18

**NOTE:** Lecture/laboratory classes are designed to be taken concurrently. They cannot be taken separately or dropped separately. Failure in either the lecture or lab will require that the entire course be taken again. Students wishing to withdraw from either the lecture or lab must withdraw from both.

**NOTE:** All students must satisfy the University's minimal requirements through either placement tests or enrollment in READ 011.

**WORKPLACE READINESS SKILLS CERTIFICATE 2850**  
**A Certificate of Program Completion**

This program is intended to prepare workers-in-transition for re-entry into the modern workplace through a series of 100-level skills classes. The program will certify their level of readiness through a series of pre- and post-tests, using standardized instruments, to demonstrate both readiness and improvement.

	<b>Credit Hours</b>
COMP 101 Using the Windows Environment .....	1
ENGL 100 Writing Basics.....	2
MATT 105 Applied Mathematics -or-	
MATT 109 Business Mathematics .....	3-4
READ 104 Reading Workshop <sup>1</sup> .....	0-3
SPCH 140 Introduction to Speech .....	2
SSKL 103 Study Skills .....	3

**11-15**

<sup>1</sup> Students whose CPT placement requires READ 009/011 should take READ 104.



# Course Descriptions

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**Course Numbering System .....412**

**Course Descriptions Listed in Alphabetical Order ..... 413**

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## COURSE NUMBERING SYSTEM

The course numbering system is alpha-numeric, consisting of four letters and three numbers. The letters indicate the subject area of the course. Developmental courses have a zero as the initial digit. Freshman level courses carry numbers between 100 and 199. Sophomore courses are numbered 200 to 299. Junior and senior level courses carry numbers between 300 and 499.

Reading, Writing and Speaking Intensive courses are indicated in the course description section of this catalog using R, W and S superscripts respectfully.

**Listing for Special Instruction Courses.** Vincennes University offers instruction tailored to the needs of special populations. The instruction is individualized to the particular needs of the business or industry, with emphasis that the content be college level. The following courses are established to permit flexibility within established credit hour designations.

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**\_\_\_\_ 187 Special Instruction: (Course Title Description) 1 hr (Sem I, II)**

This is a specially designed course to meet the needs and demands of business, industry, agencies, organizations and governmental entities. Course content is designed under the approval of Vincennes University faculty to fulfill the necessary requirements for credit. Students may enroll in multiple sections of this course with the same prefix code. Course content will pertain to the topic or topics covered in this special instruction course. The course can include lab requirements that meet the standards and guidelines for credit.

**\_\_\_\_ 188 Special Instruction: (Course Title Description) 2 hrs (Sem I, II)**

(Same as \_\_\_\_ 187 course listed above.)

**\_\_\_\_ 189 Special Instruction: (Course Title Description) 3 hrs (Sem I, II)**

(Same as \_\_\_\_ 187 course listed above.)

**Listing for Special Project Courses.** Effective Fall 1980, all Special Project/Independent Study courses previously included in specific program areas in the Course Description section of the catalog will be identified as noted below using the appropriate program's four-letter prefix as part of the course number; i.e., a three-hour Special Project course in Computer Programming Technology will be identified as COMP 299. These courses are to be utilized primarily to satisfy elective requirements and not as a substitute for a required course in a given curriculum.

**\_\_\_\_ 297 Special Project 1 hr (Sem I, II)**

Prerequisite: Student must submit a written proposal describing the project he or she wishes to pursue. Permission of the division dean and instructor coordinating the project is required before the project is started. The student, under the guidance of a faculty member, then undertakes investigation, study, and research in an advanced concept or problem concerning his/her major field of study.

**\_\_\_\_ 298 Special Project 2 hrs (Sem I, II)**

Prerequisite: Student must submit a written proposal describing the project he or she wishes to pursue. Permission of the division dean and instructor coordinating the project is required before the project is started. The student, under the guidance of a faculty member, then undertakes investigation, study, and research in an advanced concept or problem concerning his/her major field of study. Open to students with 45 semester hours or more. Only one project is allowed per major. This course cannot be used to replace a required course in a given curriculum.

**\_\_\_ 299 Special Project****3 hrs (Sem I, II)**

Prerequisite: Student must submit a written proposal describing the project he or she wishes to pursue. Permission of the division dean and instructor coordinating the project is required before the project is started. The student, under the guidance of a faculty member, then undertakes investigation, study, and research in an advanced concept or problem concerning his/her major field of study. Open to students with 45 semester hours or more. Only one project is allowed per major. This course cannot be used to replace a required course in a given curriculum.

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**Apprenticeship Construction Trades****ABCC 100 Safety for the Construction Trades****1 hr (Sem I)**

This course is designed specifically as a core curriculum course for all Associated Builders and Contractors Association Apprenticeship Students. Emphasis is placed on safety practices and applications as related to the trades. Occupational Safety and Health Administration (OSHA) Safety and Health Standards are introduced. 1 lecture hour.

**ABCC 110 Basics for the Construction Trades****3 hrs (Sem I)**

This course is designed specifically as a core curriculum course for Associated Builders and Contractors Association Apprenticeship Students. This course introduces the student to terminology and applications associated with hand tools, power tools, blueprint reading, and rigging. 3 lecture hours.

**ABCC 120 On The Job Training I****2 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students in the specialty areas of Electrical, Carpentry, HVAC, Plumbing, Pipefitter and Sheet Metal. These students must be participating in their first half of the first year of OJT. Students will apply classroom lecture and laboratory theory and applications to on-the-job practices. Students will keep a log record of competencies demonstrated on the job. A minimum of 1000 hours on the job is required to complete this course.

**ABCC 121 On The Job Training II****2 hrs (Sem II)**

Prerequisite: ABCC 120. This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students who are participating in the second half of their first year of OJT. Students will apply classroom lecture and laboratory theory and applications to on-the-job practices. Students will keep a log record of competencies demonstrated on the job. A minimum of 1000 hours on the job is required to complete this course.

**ABCC 122 On The Job Training III****2 hrs (Sem I)**

Prerequisite: ABCC 121. This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students who are participating in the first half of their second year of OJT. Students will apply classroom lecture and laboratory theory and applications to on-the-job practices. Students will keep a log record of competencies demonstrated on the job. A minimum of 1000 hours on the job is required to complete this course.

**ABCC 123 On The Job Training IV****2 hrs (Sem II)**

Prerequisite: ABCC 122. This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students who are participating in the second half of their second year of OJT. Students will apply classroom lecture and laboratory theory and applications to on-the-job practices. Students will keep a log record of competencies demonstrated on the job. A minimum of 1000 hours on the job is required to complete this course.

**ABCC 124 On The Job Training V****2 hrs (Sem I)**

Prerequisite: ABCC 123. This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students who are participating in the first half of their third year of OJT. Students will apply classroom lecture and laboratory theory and applications to on-the-job practices. Students will keep a log record of competencies demonstrated on the job. A minimum of 1000 hours on the job is required to complete this course.

**ABCC 125 On The Job Training VI****2 hrs (Sem II)**

Prerequisite: ABCC 124. This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students who are participating in the second half of their third year of OJT. Students will apply classroom lecture and laboratory theory and applications to on-the-job practices. Students will keep a log record of competencies demonstrated on the job. A minimum of 1000 hours on the job is required to complete this course.

**ABCC 126 On The Job Training VII****2 hrs (Sem I)**

Prerequisite: ABCC 125. This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students who are participating in the first half of their fourth year of OJT. Students will apply classroom lecture and laboratory theory and applications to on-the-job practices. Students

will keep a log record of competencies demonstrated on the job. A minimum of 1000 hours on the job is required to complete this course.

**ABCC 127 On The Job Training VIII**

**2 hrs (Sem II)**

Prerequisite: ABCC 126. This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students who are participating in the second half of their fourth year of OJT. Students will apply classroom lecture and laboratory theory and applications to on-the-job practices. Students will keep a log record of competencies demonstrated on the job. A minimum of 1000 hours on the job is required to complete this course.

**Accounting**

**ACCT 100 Basic College Accounting**

**3 hrs (Sem I, II)**

A course in the fundamentals of accounting practices. Emphasis is on journalizing, posting, preparing financial statements, reconciling bank statements, and understanding elements of payroll. The course is specifically designed for students with little or no previous accounting or bookkeeping experience and who are enrolled in an occupational program requiring only one accounting course. This course may not be substituted for ACCT 201. 3 lecture hours.

**ACCT 140 Introduction to General Ledger/Inventory**

**1 hr (Sem I, II)**

This course focuses on the basics of accounting and the inventory transactions of a business. Topics covered will be inventory costing, physical count, consignment, internal controls, reports, journalizing and posting transactions. 1 lecture hour.

**ACCT 141 Introduction to Accounts Payable**

**1 hr (Sem I, II)**

This course focuses on how to set up and administer an Accounts Payable system for a business. Topics covered will include filing, the purchases cycle, documentation and internal controls, schedules and reports for management, discounts, journalizing and posting. 1 lecture hour.

**ACCT 142 Introduction to Accounts Receivable**

**1 hr (Sem I, II)**

This course focuses on how to set up and administer an Accounts Receivable system for a business. Topics covered will include sales cycle, invoicing, collections, aging schedules, reports, discounts, internal control procedures, journalizing and posting. 1 lecture hour.

**ACCT 143 Introduction to Payroll**

**1 hr (Sem I, II)**

This course focuses on payroll computations and employee reports. Topics covered will be calculating gross pay, withholdings, net pay, direct deposits, journalizing payroll transactions and preparing individual earnings records and payroll registers. 1 lecture hour.

**ACCT 201 Principles of Accounting I**

**3 hrs (Sem I, II)**

Prerequisites: Completion of all developmental course work with a grade of C or better. Recommendation is made that students take this class in their second year. Transfer students must have completed at least 30 college-level credit hours. The course is a study of the principles of financial accounting and reporting as they relate to today's business environment. Both the procedures used and the theory/concepts upon which they are based will be studied. *This course is a transferIN course.* 3 lecture hours.

**ACCT 202 Principles of Accounting II**

**3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in ACCT 201. The course is a study of managerial accounting information as it is used by managers in various types of business organizations. The emphasis is on the development, interpretations, and application of managerial accounting for planning activities, controlling operations, and making decisions. *This course is a transferIN course.* 3 lecture hours.

**ACCT 205 Intermediate Accounting**

**3 hrs (Sem I)**

Prerequisite: ACCT 202. An in-depth study of accounting theory with emphasis on journal entries, accounts receivable, accounts payable, inventory issues, depreciation schedules, and the development, understanding, and analysis of financial statements. 3 lecture hours.

**ACCT 206 Payroll Accounting**

**3 hrs (Sem II)**

Prerequisites: Completion of all developmental course work with a grade of C or better. This course will concentrate on the more advanced accounting topics of Payroll Administration. Emphasis will be placed on practical and computerized applications. 3 lecture hours.

**§ACCT 207 Auditing<sup>R/S</sup>**

**3 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and ACCT 205. This course presents the fundamental procedures of auditing. The emphasis is placed on areas involving auditor/accountant judgment. Auditing and accounting research methodology is introduced. 3 lecture hours.

**ACCT 255 Income Tax Accounting** **3 hrs (Sem II)**

Prerequisites: Completion of all developmental course work with a grade of C or better. Involves the study of income tax procedures from the standpoint of the individual. A study is made of income, exclusions from income, deductions and credits. Emphasis is on filing of returns. 3 lecture hours.

**ACCT 260 Cost Accounting** **3 hrs (Sem I)**

Job order and process costs methods are studied with emphasis on evaluation and utilization of cost data for purpose of planning and controlling operations. 3 lecture hours.

**ACCT 291 Accounting Software Applications** **3 hrs (Sem II)**

Students receive hands-on practice with popular commercial accounting software packages, such as QuickBooks and Peachtree. Emphasis is placed on general accounting applications and payroll applications. 3 class hours.

**ACCT 292 Accounting Cases and Problems** **2 hrs (Sem I, II)**

Prerequisites: ACCT 140, ACCT 141, ACCT 142, ACCT 143, ACCT 201. This course focuses on problem solving in accounting related positions. The course is designed to test students' knowledge of accounting material and their ability to apply that knowledge in real-world scenarios. 2 lecture hours.

**ACCT 295 Individual Income Tax Preparation** **3 hrs (Sem II)**

Prerequisite: ACCT 255. In this course, students are directly involved in the preparation of individual income taxes for clients through the IRS's VITA Program. Students will gain hands-on experience in the planning, preparation, and filing of income taxes for qualified clients. 3 class hours.

**ACCT 296 Bookkeeping Certificate Review** **4 hrs (Sem I, II)**

Prerequisites: All courses in Accounting Clerk certificate. This review course will prepare the student to take the Certified Bookkeeper exam, which will demonstrate proficiency in all bookkeeping and accounting functions through the adjusted trial balance and basic payroll skills. This course will provide a review for existing students, as well as accounting clerks in the workforce who desire certification. 4 lecture/laboratory hours.

**Aviation Flight Technology**

**§AFLT 100 Primary Ground School** **5 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009, ENGL 011, and MATH 011, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. Prepares students for the Federal Aviation Administration Knowledge Test. Covers navigation, meteorology, radio, communications, and Federal Aviation Regulations. 4 lecture hours/2 laboratory hours.

**AFLT 102 Solo Preparation** **1 hr (Sem I, II)**

Prepares students for solo flight. Flight instruction includes the use of checklists, preflight inspection, taxiing, parking, straight and level flight, climbs, descents, turns, flight at a minimum controllable airspeed, stalls, ground reference maneuvers, emergency procedures, and takeoffs and landings. (Students must hold at least a third class FAA Medical Certificate and Student Pilot Certificate prior to solo.) This course consists of 15 hours of dual flight instruction. 1 lecture/laboratory hour.

**AFLT 103 Basic Flying Techniques and Navigation** **2 hrs (Sem I, II)**

Prerequisite: AFLT 102. Prepares students for solo and solo cross-country by teaching pilotage, dead reckoning, and radio navigation. Additional instruction is given in various takeoffs and landings, advanced stalls, and an introduction to night flying. This course consists of 30 hours of flight time including 20 hours dual instruction and 10 hours of solo flight. 2 lecture/laboratory hours.

**AFLT 104 Cross-Country Flight and Private Pilot Prep** **1 hr (Sem I, II)**

Prerequisite: AFLT 103. Prepares students to meet the flight experience and proficiency requirements for the Private Pilot Certificate. 15 hours of flight time including 5 hours of dual instruction and 10 hours of solo flight. 1 lecture/laboratory hour.

**§AFLT 105 Primary Flight** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009, ENGL 011, and MATH 011, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. Prepares students for the Private Pilot Certificate by teaching preflight inspection of the airplane, use of the check list, starting procedures, taxiing, parking, takeoffs and landing, turns, climbs, glides, straight and level flight, stalls, flight at a minimum controllable airspeeds, cross-country flying, short and soft field takeoffs and landings, night flying radio navigation. This course consists of 45 hours of flight time including 30 hours of dual instruction, 15 hours of supervised solo flight, and 22.5 hours ground instruction. Additional ground instruction is available.

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ble at an hourly rate if needed. In addition, to the required flight time, students may complete the FAA practical flight test. 4.5 lecture/laboratory hours.

**§AFLT 110 Ground Instruction on Primary Flight Maneuvers** **2 hrs (Sem I, II)**  
Prerequisites: A grade of C or better in READ 009, ENGL 011, and MATH 011, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. Consists of theory of aerodynamics, aircraft performance specification, weight and balance and Airman's Information Manual. Explanation of theory and proper execution of ground and flight maneuvers required for primary flight. 2 lecture hours.

**AFLT 111 Hot Air Ballooning I** **1 hr (Sem I, II)**  
Prerequisite: A grade of C or better in AFLT 105, or possess a private pilot certificate. This course is designed to obtain a private pilot certificate with a lighter-than-air category and balloon class rating with an airborne heater. The course covers the basic skills required to master the art of flying a lighter-than-air with an airborne heater. The basics of ground handling, inflation, pack up, and propane safety procedures will be presented. Weather will be a large portion of the preflight planning, focusing mainly on wind conditions and forecasts. In-flight maneuvers such as ascents, descents, level flight, terminal velocity descents, water landings, contour flying, light wind and high wind landings will be covered. This course will include 11 hours of dual instruction, 4 hours of solo flight and 10 hours of ground instruction. In addition to the required flight time, students may complete the FAA practical flight test. 1.5 lecture/laboratory hours.

**AFLT 160 Powerplant Lecture** **2 hrs (Sem II)**  
This course is designed to give the pilot a basic working knowledge of piston and turbine engines including their operating principles. Reciprocating engine and gas turbine engine components, construction and associated nomenclature will be covered. This course will also introduce the concepts of engine lubrication, engine ignition systems, fuel metering, turbo charging and instruments used in monitoring engine parameters. 2 lecture hours.

**AFLT 176 Instrument Flight** **3 hrs (Sem I, II)**  
Corequisites: AFLT 177 and AFLT 186 or a minimum of 150 total flight hours including 50 hours of solo or pilot in command cross country. FAA requirements must be met. Prepares students for the instrument airplane rating by instructing students in those operations as required in the Instrument Pilot Practical Test Standards. In addition to the required flight time, students may complete the FAA practical flight test. This course will include 26 hours of dual flight instruction and 27.5 hours ground instruction. 4.5 lecture/laboratory hours.

**AFLT 177 Instrument Simulator Training** **0 hr (Sem I, II)**  
Prerequisite: A grade of C or better in AFLT 105, or already possess a private pilot certificate. Corequisite: AFLT 176. 14 hours of dual simulator instruction.

**AFLT 181 Commercial Ground School** **3 hrs (Sem I, II)**  
Prerequisite: AFLT 100 or possess a private pilot certificate. Prepares students for the Federal Aviation Administration Commercial Pilot Written Examination by in-depth study of navigation, radio communication, airplane performance, aircraft systems, and Federal Aviation Administration Regulations. 21 lecture hours/2 laboratory hours.

**AFLT 185 Commercial Flight I Simulator Training** **0 hr (Sem I, II)**  
Corequisite: AFLT 186. 4 hours of dual simulator instruction.

**AFLT 186 Commercial Flight I** **3 hrs (Sem I, II)**  
Corequisites: AFLT 176, AFLT 177, AFLT 185. FAA requirements must be met. Instruction will continue in the basic maneuvers and progress to advanced maneuvers as specified in the FAA Commercial Pilot Practical Test Standards. Flight time will consist of 46 flight hours to include 21 hours of dual instruction, 25 hours solo flight, and 21 hours ground instruction. 3 lecture/laboratory hours.

**AFLT 210 Instruments, Radios and Systems** **2 hrs (Sem I)**  
This course is designed to provide pilots with a better understanding of aircraft instrumentation, radios, and systems. Major emphasis will be placed on more advanced aircraft systems found on complex aircraft. Topics will include aircraft hydraulic systems, aircraft electrical systems, retractable landing gear, aircraft brake systems, pressurization, constant speed propellers, prop synchrophasers, de-ice and anti-ice equipment, flight control systems, airframe construction techniques, and radar. 2 lecture hours.

**AFLT 211 Hot Air Ballooning II** **1 hr (Sem I, II)**  
Prerequisite: A grade of C or better in AFLT 111, or already hold a private pilot certificate with a lighter-than-air category and balloon class rating with an airborne heater. This course covers basics of flight instruction, fuel management, instruction techniques, commercial operations, passenger safety, preflight briefs, in-flight briefs, landing briefs, basics of passenger safety, and on-ground safety with propane refueling techniques. Flight hours will consist of 11 hours of dual flight time, 1 hour solo, and 10 hours of



ground instruction. In addition to required flight time, students may complete the FAA practical flight test. 1.5 lecture/laboratory hours.

**AFLT 216 Commercial Flight II** **4 hrs (Sem I, II)**  
Prerequisites: A grade of C or better in AFLT 176 and 186, or hold an instrument rating and have a minimum of 200 flight hours. Corequisite: AFLT 217. Upon successful completion of the course, students will meet the requirements of the FAA Commercial Pilot Practical test Standards and will meet the flight experience requirements for the FAA Commercial Pilot Certificate. Flight time will consist of 64 flight hours to include 24 hours of dual instruction, 40 hours of solo flight, and 15 hours ground instruction. In addition to the required flight time, students may complete the FAA practical flight test. 3 lecture/laboratory hours.

**AFLT 217 Commercial Flight II Simulator Training** **0 hr (Sem I, II)**  
Corequisite: AFLT 216. 6 hours of dual simulator instruction.

**AFLT 221 Instrument Ground School** **5 hrs (Sem I, II)**  
FAA requirements must be met. Prepares students for the Federal Aviation Administration Instrument Knowledge Test. The course includes a discussion of Federal Aviation Administration Regulations, meteorology, radio navigation, instrument departure, enroute, and approach procedures. 4 lecture hours/2 laboratory hours.

**AFLT 261 Aviation Instructor Fundamentals<sup>S</sup>** **3 hrs (Sem I, II)**  
Prerequisite: AFLT 181 and 221, or hold a commercial pilot certificate with instrument rating. Corequisite: AFLT 263. Prepares students to successfully complete the Federal Aviation Administration's Fundamentals of Instruction written examination. Develops students' insight into how people learn, the characteristics of a professional flight instructor, and how to apply these principles in the flight training environment. 3 lecture hours.

**§AFLT 263 Flight Training Techniques<sup>R/W</sup>** **3 hrs (Sem I, II)**  
Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and AFLT 181 and 221. Corequisite: AFLT 261. Prepares students to successfully complete the Federal Aviation Administration's Flight Instructor Airplane written examination. Analysis of flight maneuvers, related aerodynamics, and regulations pertaining to flight instruction are studied in detail. 3 lecture hours.

**AFLT 280 Instrument Flight Instructor--Airplane Rating** **2 hrs (Sem I, II)**  
Prerequisites: Completion of AFLT 216, 261, 263 and 295 or their equivalent. Designed to include the fundamentals of instrument flight instructing, preparation of materials, effective teaching methods, and analysis of maneuvers to prepare students for the FAA instrument flight instructor certificate. Includes 25 hours dual instruction and 20 hours ground discussion. In addition, to the required flight time, students may complete the FAA practical flight test. 3 lecture/laboratory hours.

**AFLT 292 Precision Flight Maneuvers** **2 hrs (Sem I, II)**  
Designed to introduce students to precision aerobatic flight. The maneuvers will include but are not limited to spins, hammerhead stalls, snap rolls, slow rolls and loops. Emphasis will be placed on students developing a higher degree of coordination and on learning the capabilities of their airplane in a maximum performance situation. There will be 10 hours dual flight instruction and 5 hours ground instruction on Federal Aviation Administration Regulations requirements for aerobatic flight, performance of maneuvers, and flight safety. 1 lecture/laboratory hour.

**AFLT 293 Tail Wheel Endorsement** **1 hr (Sem I, II)**  
Prerequisites: Possess a Commercial Pilot Certificate. Certain weight restrictions apply. Covers the basic skills and techniques required to master the art of flying tail wheeled aircraft. There will be 5 hours of dual flight instruction and 5 hours of ground instruction. 1 laboratory hour.

**AFLT 295 Flight Instructor--Airplane Rating** **2 hrs (Sem I, II)**  
Includes 20 dual and solo flight hours and 25 hours ground instruction covering the fundamentals of flight instructing, preparation of materials, effective teaching methods, and analysis of maneuvers to prepare students for the FAA flight instructor certificate. In addition to the required flight time, students may complete the FAA practical flight test. 3 lecture/laboratory hours.

**AFLT 296 Advanced Flight** **2 hrs (Sem I, II)**  
Covers flight techniques and operational procedures of multi-engine aircraft. Includes 10 hours multi-engine flight training and 13 hours ground instruction. In addition to the required flight time, students may complete the FAA practical flight test. 1.5 lecture/laboratory hours.

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## Agribusiness

- AGBS 101 Agribusiness Industries** 3 hrs (Sem I)  
A study of the agriculture industries that are of service to agribusiness. Basic processing of major agricultural products, storage, shipping, grading and merchandising from production to the consumer is examined. 3 lecture hours.
- AGBS 121 Livestock Evaluation** 3 hrs (Sem I, II)  
This course will give students the skills to make decisions based on collected data and observation while increasing their ability to validate their critical thinking. Students will have the opportunity to participate in judging competitions and meeting experts in the livestock industry. Students will have hands-on opportunities to practice their skills and evaluations. 3 lecture hours.
- §AGBS 152 Agricultural Sales**<sup>R/W/S</sup> 3 hrs (Sem II)  
Prerequisite: A grade of C or better in READ 011 and ENGL 011, or SAT Reading score of 420 and SAT Writing score of 380 or greater, or appropriate placement test scores. A basic course in techniques of selling. The role of selling in the agricultural economy, stressing the points and terminology necessary in today's agriculture. 3 lecture hours.
- AGBS 250 John Deere Tech Computer Technology** 2 hrs (Sem II)  
This course is designed to present precision agriculture and computer technology with emphasis on John Deere's Green Start system. The class will cover John Deere's computer software system, field mapping, variable rate technology, control systems, yield monitoring, calibrations, and installation. The latest technology and its impact on the agriculture industry will be examined. 2 lecture hours.
- AGBS 254 Nutrient Management** 3 hrs (Sem I)  
Understanding the principles of soil fertility and its impact on crops and the farmer's financial progress is vital. Students will study fertilizer sources and materials, chemical form of elements in the soil, reactions of fertilizer, determination of fertilizer needs. Students will use computer programs to calculate the cost of inputs in a field and their impact on profits. 3 lecture hours.
- AGBS 260 Introduction to Precision Ag** 3 hrs (Sem I)  
An introduction to the latest technologies in agriculture. Presentations will cover GPS, guidance systems, collection of field data, and other precision ag applications. Students will study the impact of new technology on the agriculture industry. 3 lecture hours.
- §AGBS 264 Agribusiness Operations**<sup>R/W/S</sup> 3 hrs (Sem II)  
Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course is designed to study the diverse skills of leadership, management, and human resources specifically needed to oversee an agribusiness operation. 3 lecture hours.
- AGBS 271 John Deere APEX Software** 1 hr (Sem II)  
Setup, navigation, and use of John Deere APEX GIS software for management of precision ag components and review of field collected data. The majority of coursework will be hands on application. 1 lecture hour.
- AGBS 272 Ag Leader SMS Software** 1 hr (Sem II)  
Setup, navigation, and use of Ag Leader SMS GIS software for management of precision ag components and review of field collected data. The majority of coursework will be hands on application. 1 lecture hour.
- AGBS 273 FarmWorks Software Suite** 1 hr (Sem II)  
Setup, navigation, and use of FarmWorks Software Suite for management of precision ag components and review of field collected data. The majority of coursework will be hands on application. 1 lecture hour.
- AGBS 280 Precision Ag Components** 3 hrs (Sem II)  
This class will teach students use and maintenance of various precision ag components including John Deere, Ag Leader, Raven, Rawson, etc... Students will review compatibility and systems troubleshooting. 3 lecture hours.
- AGBS 290 Applied Precision Ag Technology** 3 hrs (Sem II)  
Prerequisite: Enrollment in the Precision Ag Certificate. Students will develop individual projects based on information learned in precision ag. Projects will demonstrate impact of emerging ag technology on various business models. 3 lecture hours.

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## Agriculture

- AGRI 100 Agriculture Lectures** **1 hr (Sem I)**  
Important problems and opportunities in the various fields of agriculture for beginning agriculture students. (Purdue Agriculture 101) 1 lecture hour.
- AGRI 101 Introductory Agricultural Business and Economics** **3 hrs (Sem II)**  
Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. Farm financial records; analysis of the farm business; factors affecting farm profits; agricultural geography; types of farming and current problems in agricultural economics. (Purdue Ag-Econ 100) 3 lecture hours.
- AGRI 102 Introduction to Soil Evaluation** **2 hrs (Sem II)**  
Introduction to soil morphology, soil characteristics and landscape properties. Students develop skills in determining soil texture, structure, color, parent material, consistence, runoff and drainage. Basic concepts regarding the impact of soil morphology on the use of soils for various purposes will be discussed. Collegiate soil judging is a portion of the subject matter discussed. A field trip to the North American College Teachers of Agriculture (NACTA) Soil Judging Contest is required. 1 lecture hour, 2 laboratory hours.
- AGRI 103 Fundamentals of Horticulture<sup>w</sup>** **3 hrs (Sem I)**  
Prerequisites: Students must qualify for ENGL 102 *and* MATH 012. Biology and technology involved in production, storage, processing and marketing of horticultural plants and products. (Purdue Hort 102) 3 lecture hours.
- AGRI 104 Crop Production<sup>s</sup>** **3 hrs (Sem II)**  
Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. Fundamental principles of crop production and distribution. Introduction to basic soil-plant relations, current field crop production practices, agricultural meteorology, crop physiology, and plant breeding. (Purdue Agronomy 105) 2 lecture hours, 2 laboratory hours.
- AGRI 106 Animal Agriculture** **3 hrs (Sem I)**  
Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. Importance of livestock in agricultural field; place of meats and animal products in the human diet. (Purdue Animal Science 101) 3 lecture hours.
- AGRI 201 Management of Business Related to Agriculture** **3 hrs (Sem I)**  
Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. Management of non-farm firm with emphasis on business selling to farmers and selling their products. Production; merchandising, advertising and sales promotion; financial management; employee relations; general administrative policy formulation and administration. (Purdue Ag-Econ 330) 3 lecture hours.
- AGRI 202 Soil Evaluation** **1 hr (Sem II)**  
Prerequisite: AGRI 102. More in depth treatment of soil morphology, soil characteristics, and land use. Collegiate soil judging is a portion of the subject matter discussed. A field trip to the North American College Teachers of Agriculture (NACTA) Soil Judging Contest is required. 3 laboratory hours.
- AGRI 203 Plant Propagation** **3 hrs (Sem I)**  
Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. Theoretical and applied aspects of controlled plant reproduction by sexual and asexual techniques including seeding, budding and grafting, layering, cuttings, separations, division, and tissue culture. Management of plants after propagation. (Purdue Hort 201) 2 lecture hours, 2 laboratory hours.
- AGRI 204 Soil Science<sup>w</sup>** **3 hrs (Sem II)**  
Prerequisites: A grade of C or better in CHEM 105 and CHEM 105L. Differences in soils; soil genesis; physical, chemical and biological properties of soils, relation of soils to problems of land use and pollution; soil management relative to tillage, erosion, drainage, moisture supply, temperature, aeration, fertility, and plant nutrition. Introduction to fertilizer chemistry and use. (Purdue Agronomy 255) 2 lecture hours, 2 laboratory hours.
- AGRI 206 Principles of Animal Nutrition** **3 hrs (Sem II)**  
Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. Digestive processes, composition of feed stuffs, nutritional requirements, formulation of practical rations for farm animals. (Purdue Animal Science 221) 3 lecture hours.
- AGRI 207 General Entomology** **3 hrs (Sem I)**  
Corequisite: LFSC 105 and LFSC 105L. General morphology and physiology of insects, basic ecology and behavioral ecology of the major insect orders. Lab consists of the identification of insect structures; families, including insects used for class collection. Some labs also include field trips to different ecological systems. An insect collection is required. (Purdue Entomology 206/207) 2 lecture hours, 2 laboratory hours.

**AGRI 208 Genetics<sup>R</sup>****4 hrs (Sem II)**

Prerequisites: A grade of *C* or better in LFSC 105. Inheritance in populations, organisms, cells and viruses. Major concepts illustrated in lab using appropriate organisms. (Purdue Agronomy 320, 321) 3 lecture hours, 2 laboratory hours.

**AGRI 225 Dendrology****3 hrs (Sem I)**

Prerequisites: Concurrent enrollment in or a grade of *C* or better in LFSC 105/105L. Field identification, taxonomy, and ecological characteristics of trees, shrubs, and herbs found in forests, prairies, old fields, and wetlands. (Purdue Forestry 225) 2 lecture hours, 2 laboratory hours.

**Aviation Maintenance Technology****AMNT 101 Introduction to Aviation Maintenance****1 hr (Sem I, II)**

This course is offered for students who are entering the Aviation Maintenance Technology program or are interested in learning more about the aspects of aviation maintenance and have limited knowledge of aircraft or aviation maintenance procedures and operations. Basic aerodynamics, applied mathematics, hand tool identification and usage, ground handling and safety, and maintenance shop requirements and practices are covered. 30 lecture/laboratory hours.

**AMNT 102 General Aviation Maintenance****4 hrs (Sem I)**

Prerequisites: A grade of *C* or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course covers Federal Aviation regulations, weight and balance ground operations, forms and records. 120 total lecture/laboratory hours.

**AMNT 104 Introduction to Electricity****4 hrs (Sem I)**

Prerequisites: A grade of *C* or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course introduces students to the basic theorems of AC, DC, digital circuits, and multimeter usage and aircraft batteries. Students will build a project. 120 total lecture/laboratory hours.

**AMNT 106 Materials, Processes and Welding****4 hrs (Sem I)**

Prerequisites: A grade of *C* or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course familiarizes students with popular non-destructive testing methods, aircraft paint and refinishing systems, and the basics of aircraft welding. 120 total lecture/laboratory hours.

**AMNT 107 Hydraulics and Pneumatics****4 hrs (Sem I)**

Prerequisites: A grade of *C* or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course covers fabrication of fluid lines and fittings, principles of hydraulic and pneumatic systems. Also covers aircraft landing gear systems, tires, wheels and brakes. 120 total lecture/laboratory hours.

**AMNT 162 Aircraft Sheetmetal****4 hrs (Sem II)**

Prerequisites: A grade of *C* or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course introduces students to various techniques of fabrication and repair of aircraft sheetmetal structures. 120 total lecture/laboratory hours.

**AMNT 164 Aircraft Systems****4 hrs (Sem II)**

Prerequisites: A grade of *C* or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course introduces students to aircraft environmental, fuel, ice and rain, and fire protection systems. 120 total lecture/laboratory hours.

**AMNT 166 Composite and Nonmetallic Structures****4 hrs (Sem II)**

Prerequisites: A grade of *C* or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course familiarizes students with laminated and bonded material construction, repair and fabrication. 120 total lecture/laboratory hours.

**AMNT 167 Aircraft Electrical****4 hrs (Sem II)**

Prerequisite: AMNT 104. This course examines the various electrical systems and components used in aircraft installations, including instrumentation, navigation, and communications systems. Electrical systems troubleshooting, maintenance and repair will be covered. 120 total lecture/laboratory hours.

**AMNT 190 Boeing 737 General Familiarization****2 hrs (Sem I, II, Summer)**

Prerequisites: A grade of *C* or better in AMNT 102, 104, 106, and 164. This course introduces the student to the specifications, systems, and ground handling procedures of a Boeing 737-200 airliner. Proper use and interface of ground support equipment, maintenance manuals, and specific safety issues will be emphasized. Limited enrollment. Offered only at the Indianapolis Aviation Technology Center. 40 lecture/laboratory hours.

**AMNT 192 Boeing 757 General Familiarization** **2 hrs (Sem I, II, Summer)**  
Prerequisites: A grade of C or better in AMNT 102, 104, 106, and 164. This course introduces the student to the specifications, systems, and ground handling procedures of a Boeing 757 airliner. Proper use and interface of ground support equipment, maintenance manuals, and specific safety issues will be emphasized. Limited enrollment. Offered only at the Indianapolis Aviation Technology Center. 40 lecture/laboratory hours.

**AMNT 194 Boeing 727 General Familiarization** **2 hrs (Sem I, II, Summer)**  
Prerequisites: A grade of C or better in AMNT 102, 104, 106, and 164. This course introduces the student to the specifications, systems, and ground handling procedures of a Boeing 727 airliner. Proper use and interface of ground support equipment, maintenance manuals, and specific safety issues will be emphasized. Limited enrollment. Offered only at the Indianapolis Aviation Technology Center. 40 lecture/laboratory hours.

**AMNT 196 Airbus A320 General Familiarization** **2 hrs (Sem I, II, Summer)**  
Prerequisites: A grade of C or better in AMNT 102, 104, 106, and 164. This course introduces the student to the specifications, systems, and ground handling procedures of an Airbus A320 airliner. Proper use and interface of ground support equipment, maintenance manuals, and specific safety issues will be emphasized. Limited enrollment. Offered only at the Indianapolis Aviation Technology Center. 40 lecture/laboratory hours.

**AMNT 198 McDonnell Douglas DC-9 General Familiarization** **2 hrs (Sem I, II, Summer)**  
Prerequisites: A grade of C or better in AMNT 102, 104, 106, and 164. This course introduces the student to the specifications, systems, and ground handling procedures of a McDonnell Douglas DC-9 airliner. Proper use and interface of ground support equipment, maintenance manuals, and specific safety issues will be emphasized. Limited enrollment. Offered only at the Indianapolis Aviation Technology Center. 40 lecture/laboratory hours.

**AMNT 202 Powerplant Fuel and Induction Systems** **4 hrs (Sem I)**  
Prerequisites: A grade of C or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course familiarizes students with fuel metering systems and induction systems including supercharging, turbocharging, and airflow principals. 120 total lecture/laboratory hours.

**AMNT 204 Reciprocating Engine Overhaul** **4 hrs (Sem I)**  
Prerequisites: A grade of C or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course is an intensive study of the theory, construction, maintenance, repair and overhaul of aircraft reciprocating engines. 120 total lecture/laboratory hours.

**AMNT 206 Powerplant Systems and Propellers** **4 hrs (Sem I)**  
Prerequisites: A grade of C or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course covers theory and repairs of powerplant systems including lubrication, fire protection, cooling and exhaust. Also covers propeller and propeller systems. 120 lecture/laboratory hours.

**AMNT 207 Powerplant Electrical** **4 hrs (Sem I)**  
Prerequisites: A grade of C or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course covers theory, repair and maintenance of powerplant instrument, ignition and starting systems. 120 total lecture/laboratory hours.

**§AMNT 262 Turbine Engines<sup>R/W</sup>** **4 hrs (Sem II)**  
Prerequisites: A grade of C or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course covers theory, maintenance and overhaul of turbine engines. 120 total lecture/laboratory hours.

**AMNT 264 Engine Installation and Troubleshooting<sup>S</sup>** **4 hrs (Sem II)**  
Prerequisites: A grade of C or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course covers removal, installation and troubleshooting of turbine and reciprocating engines. 120 total lecture/laboratory hours.

**AMNT 266 Aircraft Inspection** **4 hrs (Sem II)**  
Prerequisites: A grade of C or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This is an intensive course simulating typical FAA 100-hour and

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

annual inspections. Assembly and rigging of both fixed wing and helicopters will be studied. 120 total lecture/laboratory hours.

**AMNT 267 Airframe Inspection** **2 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This is an intensive course simulating typical airframe FAA 100-hour and annual inspections. Assembly and rigging of both fixed-wing aircraft and helicopters will also be studied. *This course is for Airframe Certificate students only.* 90 total lecture/laboratory hours.

**AMNT 269 FAA Certification, Preparation and Pretest** **1 hr (Arranged)**

Prerequisites: A grade of C or better in required courses and eligibility based on current FAA regulations. Prepares students to successfully complete the FAA General, Airframe, and/or Powerplant written examinations. 24 lecture/laboratory hours (one-week course).

**AMNT 271 Engine Inspection** **1 hr (Arranged)**

Prerequisites: A grade of C or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This is an intensive course simulating typical Powerplant FAA 100-hour inspections. *This course is for Powerplant Certificate students only.* 30 lecture/laboratory hours (one-week course).

**AMNT 272 FAA Written, Oral and Practical Testing (General, Airframe and Powerplant)** **1 hr (Arranged)**

Prerequisites: A grade of C or better in all required AMNT courses, PHY T 101 or higher, MATH 101 or higher, and eligibility based on current FAA regulations. Administration of pretest and FAA oral, practical, and/or written examinations. Successful completion and eligibility based on current FAA regulations lead the candidate to an FAA Mechanic Certificate with Airframe and Powerplant ratings. Special exam fee. *Offered only to students testing out of sequence.*

**AMNT 274 FAA Written, Oral and Practical Testing (General and Airframe or Powerplant)** **1 hr (Arranged)**

Prerequisites: A grade of C or better in required courses and eligibility based on current FAA regulations. Administration of pretest and FAA oral, practical, and/or written examinations. Successful completion and eligibility based on current FAA regulations lead the candidate to an FAA Mechanic Certificate with either an Airframe or Powerplant Rating. Special exam fee.

**AMNT 276 FAA Written, Oral and Practical Testing (Airframe or Powerplant)** **1 hr (Arranged)**

Prerequisites: A grade of C or better in required courses and eligibility based on current FAA regulations. Administration of pretest and FAA oral, practical, and/or written examinations. Successful completion and eligibility based on current FAA regulations lead the candidate to an FAA Mechanic Certificate with Airframe or Powerplant Ratings. Special exam fee.

**AMNT 286 FAA Oral and Practical Testing** **3 hrs (Arranged)**

Prerequisites: A grade of C or better in all required AMNT courses, PHY T 101 or higher, MATH 101 or higher, and eligibility based on current FAA regulations. Administration of pretest and FAA oral and practical examinations for Airframe and Powerplant Mechanic Ratings. 120 total lecture/laboratory hours.

**AMNT 287 FAA Certification** **4 hrs (Sem II)**

Prerequisites: A grade of C or better in all required AMNT courses, PHY T 101 or higher, MATH 101 or higher, and eligibility based on current FAA regulations. Administration of pretest and FAA written, oral and practical examinations for Airframe and Powerplant Mechanic Ratings. Special exam fee. 120 total lecture/laboratory hours.

**AMNT 295 Aviation Maintenance Avionics I** **4 hrs (Sem I)**

Prerequisites: AMNT 104 and AMNT 167 or holder of an A&P license. Students will build on their acquired knowledge from Aviation Basic Electricity and Airframe Electrical studies. They will continue on into the area of amplification, receiver and transmitter operations. 4 lecture hours.

**AMNT 296 Aviation Maintenance Avionics II** **4 hrs (Sem II)**

Prerequisites: AMNT 295. Students will build on their acquired knowledge from AMNT 295. They will continue on into the area of amplification, receivers and transmitter operations primarily in the aviation area. There will be additional exposure to new technologies, digital, optical and microwave systems. This course will finish to prepare you for the testing for the GROL (General Radiotelephone Operators License) including a Radar Endorsement. 4 lecture hours.

**AMNT 297 FCC GROL Pre-testing** **2 hrs (Summer)**  
(General Radiotelephone Operators License) Prerequisites: AMNT 295 and AMNT 296. 2 lecture hours.

**AMNT 300 Boeing 737 Inspection and Servicing Procedures** **3 hrs (Sem I, II, Summer)**

Prerequisite: A valid FAA Mechanic Certificate with Airframe and Powerplant ratings. An in-depth study of the inspection, testing, and routine service functions performed during a typical Boeing 737 "C-check." The use of maintenance manuals, job-cards, integrated parts manuals, and specialized testing and inspection equipment will be practiced. Limited enrollment. Offered only at the Indianapolis Aviation Technology Center. 120 lecture/laboratory hours.

**AMNT 305 Boeing 737 Line Maintenance** **3 hrs (Sem I, II, Summer)**

Prerequisite: A valid FAA Mechanic Certificate with Airframe and Powerplant ratings. This course focuses on component and system-specific non-routine repairs including wheel, brake and tire servicing, lighting and cabin repairs, cockpit component removal and replacement, APU and battery maintenance, and potable and waste water system troubleshooting. Limited enrollment. Offered only at the Indianapolis Aviation Technology Center. 120 lecture/laboratory hours.

**AMNT 320 Advanced Aircraft Electronic Systems** **6 hrs (Sem I, II, Summer)**

Prerequisites: FAA Mechanic Certificate with Airframe and Powerplant ratings. An in-depth, integrated study of transport category aircraft electrical, communication, navigation, and flight management systems. Topics include inertial navigation and global positioning systems, engine indicating and crew alert systems, traffic alert and collision avoidance systems, airline communication addressing and reporting systems, and Aeronautical Radio, Inc. definitions and standards. Test equipment utilization, wiring schematic interpretation, logic circuitry, and advanced troubleshooting techniques are also addressed. Offered only at the Indianapolis Aviation Technology Center. 240 lecture/laboratory hours.

**AMNT 330 Transport Category Aircraft Inspection and Repair** **3 hrs (Sem I, II, Summer)**

Prerequisites: FAA Mechanic Certificate with Airframe and Powerplant ratings. An intensive study of damage assessment, material properties and choices, repair layouts, and specific inspection and repair techniques pertaining to the airframe, engines, and systems of large aircraft. Advanced borescope methods, control surface balancing, and the proper use of manufacturer's reference data is practiced. Offered only at the Indianapolis Aviation Technology Center. 120 lecture/laboratory hours.

**AMNT 340 Air Carrier Operations** **3 hrs (Sem I, II, Summer)**

Prerequisites: FAA Mechanic Certificate with Airframe and Powerplant ratings. This course familiarizes students with the procedures, manuals, data, forms, safety concerns, and environmental issues common to airlines and other air carriers. Special attention is given to fault isolation and reporting, weight and balance procedures, fueling, hazardous material handling, and OSHA regulations. Offered only at the Indianapolis Aviation Technology Center. 120 lecture/laboratory hours.

**Apprenticeship Carpentry**

**APPC 101 Opportunities in Construction** **1 hr (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Carpentry Apprenticeship Students. Topics covered include formal construction training, apprenticeship programs, employee responsibilities, and employee expectations of employers, training programs, and apprenticeship committees. 1 lecture hour.

**APPC 111 Carpentry Applications I** **3 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Carpentry Apprenticeship Students. Topics and applications covered in this course include wood building materials, fasteners, adhesives, hand and power tools, floor systems, wall and ceiling framing, roof framing, windows, and exterior doors. 3 lecture hours.

**APPC 112 Carpentry Applications II** **4 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association Carpentry Apprenticeship Students. Topics and applications covered in this course include construction drawings – part I, introduction to concrete and reinforcing materials, foundations and flat work, and concrete forms. 4 lecture hours.

**APPC 113 Carpentry Applications III** **4 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Carpentry Apprenticeship Students. Topics and applications covered in this course include construction drawings – part II, reinforcing concrete, handling and placing concrete, patented forms, and tilt-up wall systems. 4 lecture hours.

**APPC 114 Carpentry Applications IV** **4 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association Carpentry Apprenticeship Students. Topics and applications covered in this course include stair construction, reinforcing concrete, patented forms, interior finish, ceiling systems, and exterior wall finishes. 4 lecture hours.

**APPC 115 Carpentry Applications V** **4 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Carpentry Apprenticeship Students. Topics and applications covered in this course include roofing, installation of cornices, gutters, downspouts, and various exterior sidings. 4 lecture hours.

**APPC 116 Carpentry Applications VI** **4 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association Carpentry Apprenticeship Students. Topics and applications covered in this course include finishing of stairs, laser instruments, and supplements to ceiling systems. Students are also introduced to supervision practices. 4 lecture hours.

**APPC 117 Carpentry Applications VII** **4 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Carpentry Apprenticeship Students. Topics and applications covered in this course include metal studs and drywall, interior finish, doors and windows, wall and floor specialties, and cabinetry. 4 lecture hours.

**Apprenticeship Electrical**

**APPE 101 Electrical Blueprints** **1 hr (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Electrical Apprenticeship Students. Students are introduced to the basic terminology, applications, and practices for reading electrical blueprints used in the electrical construction industry. 1 lecture hour.

**APPE 111 Electrical Theory, Components, and Applications I** **3 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Electrical Apprenticeship Students. Topics and applications covered in this course include National Electrical Code specifications, raceways, boxes, fittings, conductors, electrical commercial and residential wiring. 3 lecture hours.

**APPE 112 Electrical Theory, Components, and Applications II** **4 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association Electrical Apprenticeship Students. Topics, theory, and applications covered in this course include electric motors, alternating current, grounding, conduit bending, and conductor installations. 4 lecture hours.

**APPE 113 Electrical Theory, Components, and Applications III** **4 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Electrical Apprenticeship Students. Topics, theory, and applications covered in this course include conductor terminations, and splices, circuit breakers, fuses, contactors, relays, electric lighting, and installation of electrical services. 4 lecture hours.

**APPE 114 Electrical Theory, Components, and Applications IV** **4 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association Electrical Apprenticeship Students. Topics, theory, and applications covered in this course include load calculations (branch and feeders circuits), conductor selection, conductor calculations, overcurrent protection, raceway, box, and fitting fill requirements, wiring devices, and electrical distribution services. 4 lecture hours.

**APPE 115 Electrical Theory, Components, and Applications V** **4 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Electrical Apprenticeship Students. Topics, theory, and applications covered in this course include distribution system transformers, lamps, ballasts, and hazardous locations, and electric motors – part II. 4 lecture hours.

**APPE 116 Electrical Theory, Components, and Applications VI** **4 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association Electrical Apprenticeship Students. Topics, theory, and applications covered in this course include basic electronic theory, load calculations (feeders and services), practical applications for lighting, stand-by and emergency systems, and fire alarm systems. 4 lecture hours.

**APPE 117 Electrical Theory, Components, and Applications VII** **4 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Electrical Apprenticeship Students. Topics, theory, and applications covered in this course include specialty transformers, HVAC controls, heat tracing and freeze protection, high-voltage terminations and splices, and electric motors – part III. 4 lecture hours.

**Apprenticeship Pipefitter Trade**

**APPF 101 Introduction to the Pipefitter Trade** **1 hr (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Pipefitter Apprenticeship Students. This course introduces the student to the basic job opportunities available in the pipefitter trade as well as to the basic terminology and applications involved with pipefitting. Additional special topics cover general hand tools, hand and tool safety, and basic hand tools specific to pipefitting. 1 lecture hour.



**APPF 111 Introduction to Pipefitter Practices****3 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Pipefitter Apprenticeship Students. Topics and applications covered in this course include pipefitting power tools and power tool safety, threaded pipe fabrication, ladders and scaffolds, motorized equipment, excavations, and underground pipe. 3 lecture hours.

**APPF 112 Pipefitter Applications I****4 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association Pipefitter Apprenticeship Students. Topics and applications covered in this course include intermediate excavations, underground pipe installation, and pipefitter drawings and detail sheets. Instruction on intermediate excavations includes safety, shoring materials, pre-manufactured support systems, grade and elevation determination, and backfilling procedures. Underground pipe installation includes installing cast iron, ductile iron, vitrified clay, concrete, carbon steel, fiberglass, and thermoplastic pipe. 4 lecture hours.

**APPF 113 Pipefitter Applications II****4 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Pipefitter Apprenticeship Students. Topics and applications covered in this course include piping systems, pipefitting trade math, socket weld pipe fabrication, butt weld pipe fabrication, rigging, and pipe hangers and supports. 4 lecture hours.

**APPF 114 Pipefitter Applications III****4 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association Pipefitter Apprenticeship Students. Topics and applications covered in this course include advanced blueprint reading for the pipefitter, standards and specifications, advanced trade math, additional motorized equipment, and above ground pipe installation. Included in additional motorized equipment are man lifts, cable lifts, hydraulic torque wrenches, hydrostatic test pumps, hydro blaster pumps, drain cleaners, and construction vehicles. 4 lecture hours.

**APPF 115 Pipefitter Applications IV****4 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Pipefitter Apprenticeship Students. Topics and applications covered in this course include identification and installation of valves, fielding routing and vessel trim, spring can supports, testing pipe systems and equipment, and basic plumbing. 4 lecture hours.

**APPF 116 Pipefitter Applications V****4 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association Pipefitter Apprenticeship Students. Topics and applications covered in this course include the planning of work activities, advanced pipe fabrication, performance of NDE testing, and stress relieving and aligning. Advanced pipe fabrication will include piping offsets, miter turns, determining lateral dimensions, fabricating dummy legs and trunions out of pipe, and laying out laterals and supports without using references. 4 lecture hours.

**APPF 117 Pipefitter Applications VI****4 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Pipefitter Apprenticeship Students. Topics and applications covered in this course include steam traps, in-line specialties, special piping, hot taps, and valve maintenance. Instruction on special piping will include installing flared and compression joints using copper tubing, soldering and brazing copper tubing and fittings, bending pipe, glass-lined piping, hydraulic fitted compression joints, and grooved piping systems. 4 lecture hours.

**Apprenticeship HVAC****APPH 101 Basic Electricity for HVAC****1 hr (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association HVAC Apprenticeship Students. This course introduces the student to the basic electrical theory, terminology, and applications associated with heating, ventilation and air-conditioning systems. 1 lecture hour.

**APPH 111 Introduction to Heating & Cooling Practices****3 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association HVAC Apprenticeship Students. Topics and applications covered in this course include introduction to HVAC, copper and plastic piping practices, soldering and brazing, ferrous metal piping practices, introduction to heating, and introduction to cooling. 3 lecture hours.

**APPH 112 HVAC Applications I****4 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association HVAC Apprenticeship Students. Topics and applications covered in this course include air distribution systems, chimneys, vents, and flues, maintenance skills for the service technician, alternating current, and basic electronics and electric heating. 4 lecture hours.

**APPH 113 HVAC Applications II** **4 hrs (Sem II)**  
This course is designed specifically for Associated Builders and Contractors Association HVAC Apprenticeship Students. Topics and applications covered in this course include introduction to control circuit troubleshooting, accessories and optional equipment, metering devices, compressors, heat pumps, and leak detection, evacuation, recovery, and charging. 4 lecture hours.

**APPH 114 HVAC Applications III** **4 hrs (Sem I)**  
This course is designed specifically for Associated Builders and Contractors Association HVAC Apprenticeship Students. Topics and applications covered in this course include planned maintenance and troubleshooting gas heating, electric heating, oil heating, and cooling systems. 4 lecture hours.

**APPH 115 HVAC Applications IV** **4 hrs (Sem II)**  
This course is designed specifically for Associated Builders and Contractors Association HVAC Apprenticeship Students. Topics and applications covered in this course include troubleshooting heat pumps, accessories, and electronic controls, hydronic heating and cooling systems, airside systems, and air properties and air system balancing. 4 lecture hours.

**APPH 116 HVAC Applications V** **4 hrs (Sem I)**  
This course is designed specifically for Associated Builders and Contractors Association HVAC Apprenticeship Students. Topics and applications covered in this course include construction drawings and specifications, indoor air quality, energy conservation equipment, and building managing systems. 4 lecture hours.

**APPH 117 HVAC Applications VI** **4 hrs (Sem II)**  
This course is designed specifically for Associated Builders and Contractors Association HVAC Apprenticeship Students. Topics and applications covered in this course include water treatment, system startup and shutdown, heating and cooling system design, and commercial and industrial refrigeration. 4 lecture hours.

### **Apprenticeship Plumbing Trade**

**APPP 101 Introduction to the Plumbing Trade** **1 hr (Sem II)**  
This course is designed specifically for Associated Builders and Contractors Association Plumbing Apprenticeship Students. This course introduces the student to the basic job opportunities available in plumbing as well as to the basic terminology and applications involved with the plumbing trade. Additional special topics cover plumbing tools and drawings. 1 lecture hour.

**APPP 111 Introduction to Plumbing Practices** **3 hrs (Sem II)**  
This course is designed specifically for Associated Builders and Contractors Association Plumbing Apprenticeship Students. Topics and applications covered in this course include plastic pipe and fittings, copper pipe and fittings, cast-iron pipe and fittings, carbon steel pipe and fittings, fixtures and faucets, introduction to drain, waste, and vent systems, and introduction to water distribution systems. 3 lecture hours.

**APPP 112 Plumbing Applications I** **4 hrs (Sem I)**  
This course is designed specifically for Associated Builders and Contractors Association Plumbing Apprenticeship Students. Topics and applications covered in this course include commercial drawings, installing and testing DWV piping, installing roof, floor, and area drains, and classification of valves. 4 lecture hours.

**APPP 113 Plumbing Applications II** **4 hrs (Sem II)**  
This course is designed specifically for Associated Builders and Contractors Association Plumbing Apprenticeship Students. Topics and applications covered in this course include installing and testing water supply piping, installing fixtures, valves, and faucets, installing water heaters, fuel gas systems, and servicing of fixtures, valves, and faucets. 4 lecture hours.

**APPP 114 Plumbing Applications III** **4 hrs (Sem I)**  
This course is designed specifically for Associated Builders and Contractors Association Plumbing Apprenticeship Students. Topics and applications covered in this course include plumbing codes, venting techniques, indirect and direct waste, sewage pumps and sump pumps. 4 lecture hours.

**APPP 115 Plumbing Applications IV** **4 hrs (Sem II)**  
This course is designed specifically for Associated Builders and Contractors Association Plumbing Apprenticeship Students. Topics and applications covered in this course include sizing water supply piping, backflow preventers, water pressure booster and recirculation systems, and servicing piping systems, fixtures, and appliances. 4 lecture hours.

**APPP 116 Plumbing Applications V** **4 hrs (Sem I)**  
This course is designed specifically for Associated Builders and Contractors Association Plumbing Apprenticeship Students. Topics and applications covered in this course include sizing DWV and storm sys-

tems, private water supply systems, private waste disposal systems, and locating buried sewer and water lines. 4 lecture hours.

**APPP 117 Plumbing Applications VI** **4 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Plumbing Apprenticeship Students. Topics and applications covered in this course include hydronic and solar heating systems, water supply treatment, swimming pools and hot tubs, compressed air, corrosive-resistant waste piping, and plumbing for mobile homes and mobile home parks. 4 lecture hours.

**Apprenticeship Sheet Metal Trade**

**APPS 101 Introduction to Sheet Metal Layout** **1 hr (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Sheet Metal Apprenticeship Students. This course introduces the student to the basic job opportunities available in the sheet metal work as well as to the basic terminology and applications involved with the sheet metal trade. Additional special topics cover sheet metal tools, fasteners, hangers, and supports. 1 lecture hour.

**APPS 111 Introduction to Sheet Metal Practices** **3 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Sheet Metal Apprenticeship Students. Topics and applications covered in this course include installation of air distribution accessories, insulation, introduction to sheet metal layout and processes, and fabrication (parallel line development). 3 lecture hours.

**APPS 112 Sheet Metal Applications I** **4 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association Sheet Metal Apprenticeship Students. Topics and applications covered in this course include basic piping practices, fabrication – radial line development, bend allowances, and blueprints and specifications. 4 lecture hours.

**APPS 113 Sheet Metal Applications II** **4 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Sheet Metal Apprenticeship Students. Topics and applications covered in this course include air properties and distribution, sheet metal duct fabrication standards, soldering, and fiberglass ducts. 4 lecture hours.

**APPS 114 Sheet Metal Applications III** **4 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association Sheet Metal Apprenticeship Students. Topics and applications covered in this course include air systems, introduction to welding, brazing, and cutting, and principles of refrigeration. 4 lecture hours.

**APPS 115 Sheet Metal Applications IV** **4 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Sheet Metal Apprenticeship Students. Topics and applications covered in this course include principles of airflow, comprehensive blueprint and specification reading, fabrication – triangulation, and architectural sheet metal. 4 lecture hours.

**APPS 116 Sheet Metal Applications V** **4 hrs (Sem I)**

This course is designed specifically for Associated Builders and Contractors Association Sheet Metal Apprenticeship Students. Topics and applications covered in this course include shop production and organization, air balance, and fabrication – comprehensive review. 4 lecture hours.

**APPS 117 Sheet Metal Applications VI** **4 hrs (Sem II)**

This course is designed specifically for Associated Builders and Contractors Association Sheet Metal Apprenticeship Students. Topics and applications covered in this course include louvers, dampers, and access doors, hoods and ventilators, fume and exhaust systems design. 4 lecture hours.

**Architectural Studies Technology/CAD**

**ARCH 102 Architectural Drafting and Print Reading** **3 hrs (Sem I, II)**

An introductory course covering creation and interpretation of construction documents. Methods of geometric construction, three-dimensional drawing techniques, and sketching will be presented as well as elementary aspects of residential design and site work. Areas of emphasis will include print reading and drawing. 2 lecture hours, 4 laboratory hours.

**ARCH 110 Fundamentals of Architectural Drawing** **5 hrs (Sem I)**

An introduction to basic concepts, materials and practices of architectural drawings. Use of instruments, geometric construction, and two and three-dimensional drawing techniques. This course covers the preparation of working drawings in light wood frame construction in order to practice current procedures, dimensioning, notation, and design correlation. Drawing tools are required for individual use. 2 lecture hours, 7 laboratory hours.

**ARCH 130 Architectural Rendering and Illustration** **3 hrs (Sem I, II)**

A course in the techniques of pictorial representation: exercises encompass multiview projection, shades, shadows, isometric drawing, perspective drawing, and entourage. Media used may include pen and ink, pencil, felt pens, and various paper and board media to create the above listed illustrations and architectural scale models. 2 lecture hours, 3 laboratory hours.

**ARCH 141 Introduction to Architectural CAD** **4 hrs (Sem I, II)**

This course is an introduction to computer aided drafting using AutoCAD software. This course is primarily designed for Architecture, Surveying and Interior Design majors but open to all students interested in learning the basics of AutoCAD. This course will focus on Basic Architectural AutoCAD practices. 2 lecture hours, 4 laboratory hours.

**ARCH 160 Architectural Working Drawing** **5 hrs (Sem II)**

Prerequisite: ARCH 110 and ARCH 141. Co-requisite: ARCH 161. Students will continue to develop skills using instruments to create architectural working drawings for a light commercial/industrial building. Students will also be introduced to commercial/industrial building materials and commercial/industrial building practices. The investigation of the use of local, state and federal codes regulating health and safety will also be presented. Drawing tools are required for individual use. 2 lecture hours, 7 laboratory hours.

**ARCH 161 Architectural Computer-Aided Drawing** **4 hrs (Sem II)**

Prerequisite: ARCH 110 and ARCH 141. Corequisite: ARCH 160. This course uses AutoCAD and MS Windows to complete architectural working drawings for a light commercial/industrial building. Students will also be introduced to three-dimensional, isometric, and external reference drawings using a CAD system. 2 lecture hours, 6 laboratory hours.

**ARCH 221 Advanced Architectural Software Applications** **4 hrs (Sem I)**

Prerequisite: ARCH 141. This course introduces students to various Architectural software packages and applications which could include Autodesk VIS and Autodesk Revit. 2 lecture hours, 4 laboratory hours.

**ARCH 241 Intermediate Architectural CAD** **5 hrs (Sem I)**

Prerequisites: ARCH 160 and ARCH 161. Using AutoCAD and MS Windows, this course will emphasize various advanced architectural and engineering applications as related to commercial construction and renovation, along with other PC skills used in professional practice. This course will also introduce the concept of "State Approval Drawings", where students prepare a set of construction documents that meet minimum state requirements. 2 lecture hours, 7 laboratory hours.

**ARCH 265 Introduction to Structures** **3 hrs (Sem II)**

Prerequisite: MATT 107 or MATH 104. This course introduces students to basic concepts of statics in structural analysis. The students increase their familiarity with major structural materials in terms of their unique reactions to structural loads and stresses. 3 lecture hours.

**ARCH 271 Design I** **4 hrs (Sem I)**

Prerequisites: ARCH 110, ARCH 161 and ARCH 130. A series of lab exercises to introduce fundamental design concepts. The design process will be approached through varied uses of two- and three-dimensional techniques to familiarize students with both design thinking and communication skills. Instruction will include lecture, lab, and presentation settings. 2 lecture hours, 6 laboratory hours.

**ARCH 272 Design II<sup>S</sup>** **4 hrs (Sem II)**

Prerequisites: ARCH 271 and ENGL 101. A series of lab exercises to develop fundamentals of programming and the design process. The design process will be approached through research, continuation of two- and three-dimensional techniques, communication skills, and model building. 2 lecture hours, 6 laboratory hours.

**ARCH 281 Advanced Design I** **4 hrs (Sem I)**

Prerequisite: ARCH 130. This course is an introduction to the basic principles and elements of design by means of practical and abstract applications. Development of two- and three-dimensional presentation skills. Instruction is through presentation and critique in a design studio setting. *ARCH 281 is required for students transferring to pursue a baccalaureate degree.* 2 lecture hours, 6 laboratory hours.

**ARCH 282 Advanced Design II<sup>S</sup>** **4 hrs (Sem II)**

Prerequisite: ARCH 281 and ENGL 101. A series of advanced studio exercises to develop a high understanding of the use of a model for structuring design information, fundamentals of programming, research, communication skills and the design process. *ARCH 282 is required for students transferring to pursue a baccalaureate degree.* 2 lecture hours, 6 laboratory hours.

**§ARCH 291 Advanced Architectural CAD<sup>R/W/S</sup>****6 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placements test scores, and ARCH 241. This course will allow students the opportunity to role-play, conduct business/team meetings and deliver presentations. This course also provides a realistic opportunity to use CAD software and synthesize prior knowledge and experience, to create a set of bid documents for a steel and/or concrete/masonry commercial structure. Students will also calculate the quantity of materials required to erect a structure. This course emphasizes an increased level of professionalism within a team environment. 2 lecture hours, 10 laboratory hours.

**Art****ARTT 104 Design in Materials****3 hrs (Sem I, II)**

An introduction and exploration of the character and importance of form and design concepts, materials, and tools used by the artist/craftsman. Specific problems are used to exercise creative thinking in various facets of the course that can be applied and adapted to the student's specific area of study. For non-Art majors. 6 studio hours.

**§ARTT 110 Art Appreciation****3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. An introductory course in art which explores the creative processes of humankind, its usage of specific traditional and contemporary media for communication and the study of periods and styles in art as they relate to the human condition. Students must complete work based on observation and/or research for oral or written presentation or seminar participation as assigned by the instructor. *This course is a transferIN course.* 3 class hours.

**§ARTT 111 Two-dimensional Design****3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MATH 011, or appropriate placement test scores. An introduction to theoretical, formal considerations involved in design. Objectives are to build awareness and understanding of art elements and their interaction within a two-dimensional field, to recognize and create form and content, to develop discipline in thinking and manual skills in using simple art media and techniques through intensive visual problem solving. 6 studio hours.

**ARTT 112 Color and Design****3 hrs (Sem I, II)**

Prerequisite: ARTT 111 with a grade of C or better. A continuation of ARTT 111 with greater emphasis in color. This course will also stress the use of communicative elements and principles of design, the introduction of letterform and precision in presentation. 6 studio hours.

**§ARTT 114 Three-dimensional Design****3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MATH 011, or appropriate placement test scores. An introduction to basic formal and practical considerations involved with three-dimensional design and object making. Objectives are to build a awareness and understanding of art elements and their interaction in space, to recognize and create three-dimensional form and content and to develop discipline in thinking and in manual skills. This is done through intensive problem solving using a variety of materials, techniques, processes and simple power and hand tools. 6 studio hours.

**ARTT 116 Drawing I****3 hrs (Sem I, II)**

A personal exploration of various media techniques implemented through specific observational concepts in drawing. *This course is a transferIN course.* 6 studio hours.

**ARTT 117 Drawing II (Life Drawing)****3 hrs (Sem I, II)**

Prerequisite: ARTT 116 with a grade of C or better. A beginning study of the human form, introducing specific problems in form, anatomy, structure, movement. A variety of drawing approaches will be used to stimulate visual and practical research related to course content. 6 studio hours.

**§ARTT 130 Art History I--Pre-history to 1500****3 hrs (Sem I, II)**

Prerequisites: ARTT 110 or 199, and a grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. ARTT 110 or 199 is not required for students whose SAT Reading score is 420 or greater. Surveys painting, sculpture, and architectural styles from ancient cultures to the pre-Renaissance era. Emphasizes the historical context of art movements as well as analysis of the work of individual artists. Provides a foundation for the study of art history. *This course is a transferIN course.* 3 class hours.

**§ARTT 131 Art History II--1500 to 20<sup>th</sup> Century<sup>R/W</sup>****3 hrs (Sem I, II)**

Prerequisite: ARTT 110 or 199, and a grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement testing scores. ARTT 110 or 199 is not required for students whose SAT Reading score is 420 or greater. Surveys painting, sculpture, and architectural styles from the Renaissance

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to the 20th Century. Emphasizes the historical context of art movements as well as analysis of the work of individual artists. Focuses on developing analytical skills. *This course is a transferIN course.* 3 class hours.

**ARTT 140 Computer Art and Design**

**3 hrs (Sem I, II)**

Prerequisites: None. This course introduces students to the manipulation of freehand, scanned and photo-based imagery, to letterform as a design element, to basic layout, to mixed media, including traditional media, and to resources on the Internet. The course provides a basic introduction to hardware, software and procedures, as well as art and design issues through both specific and open-ended, interdisciplinary, hands-on problems. 6 studio hours.

**ARTT 199 Freshman Seminar**

**3 hrs (Sem I)**

The primary focus of this course will be exploration of a broad range of topics related to the visual arts, design and aesthetics. The intent is to initiate or enhance students' critical thinking about visual form in historical and contemporary art and design. Students' ability to understand and use art vocabulary will be developed through readings, writing assignments, oral discussion, slide lectures and work with visual media. Strategies for achieving success in college level academic and studio work will be introduced and used in the process. Correlation between the visual arts and other disciplines will be encouraged. Class size is limited to fourteen students. 3 lecture hours.

**ARTT 200 Drawing III**

**3 hrs (Sem I, II)**

Prerequisite: ARTT 117 with a grade of C or better. This course explores drawing as a conceptual tool for two- and three-dimensional ideas, exploring conceptual processes, spatial and graphic systems of representation and a variety of media. 6 studio hours.

**ARTT 203 Graphic Design I<sup>S</sup>**

**3 hrs (Sem I, II)**

Prerequisite: ARTT 112 with a grade of C or better. Emphasis is placed on continued study in basic communication design, graphic translation of objects, identity and letterform, stressing conceptual process, and introducing some additional design tools. 6 studio hours.

**ARTT 204 Graphic Design II**

**3 hrs (Sem I, II)**

Prerequisite: ARTT 203 with a grade of C or better. A continuation of ARTT 203 as it applies to visual design and communication. Problem solving includes layout, portfolio development and image processing software and hardware. 6 studio hours.

**ARTT 208 Printmaking I<sup>S</sup>**

**3 hrs (Sem I, II)**

Prerequisite: ARTT 116 with a grade of C or better. Development of traditional and contemporary concepts and technical skills in printmaking. Emphasis is on etching, drypoint, and monotype. 6 studio hours.

**ARTT 209 Printmaking II**

**3 hrs (Sem I, II)**

Prerequisite: ARTT 208. This is a continuation of ARTT 208 with an emphasis on personal exploration of the learned concepts and skills found in the different printmaking methods of ARTT 208. 6 studio hours.

**ARTT 211 Art Portfolio Development**

**2 hrs (Sem I, II)**

Required of and restricted to Art Design-Graphic Design/Visual Communication Emphasis, Education--Art Concentration, Fine Arts/Art--Studio Concentration and Fine Arts/Pre-Art Therapy Concentration majors. This course combines lectures on issues to be considered, particularly regarding the transfer process, when selecting works for a portfolio. This includes the preparation of original work, photographing those works, building a resume, reviewing art vocabulary, critical discussion of works and an oral presentation of a selection of works to a faculty committee. Includes meeting representatives from other art schools. 2 lecture hours.

**ARTT 212 Art Portfolio Assessment**

**1 hr (Sem I, II)**

Prerequisite: ARTT 211. Required of and restricted to Art Design-Graphic Design/Visual Communication Emphasis, Education--Art Concentration, Art--Studio Concentration and Pre-Art Therapy concentration majors. This course applies the information and skill gained in ARTT 211 toward creating an exit portfolio of works to be reviewed and evaluated by the Art faculty committee before the end of the students' last semester. 1 class hour.

**ARTT 213 Ceramics I<sup>S</sup>**

**3 hrs (Sem I, II)**

An introduction to construction processes in both handbuilding and wheelthrowing. Class discussion will cover historical and contemporary concepts in ceramics. Students will be introduced to glazing techniques and to materials used in functioning clay and glaze recipes. 6 studio hours.

**ARTT 214 Ceramics II**

**3 hrs (Sem I, II)**

Prerequisite: ARTT 213. A continuing exploration of construction processes. Students will begin dealing directly with clay and glaze chemistry. Actual material testing and glaze formulation will be carried out and discussed. Class discussion and hands-on experience will cover kiln construction firing process. 6 studio hours.

**ARTT 215 Sculpture I<sup>S</sup>** **3 hrs (Sem I, II)**  
Prerequisite: ARTT 114 with a grade of *C* or better. Includes work with materials such as plaster, cement, metals, and wood, and can include techniques such as forging, welding, carving, metal casting with sand, lost styrofoam and lost wax using ceramic shell molds, depending on students' interest or current course problems. 6 studio hours.

**ARTT 216 Sculpture II** **3 hrs (Sem I, II)**  
Prerequisite: ARTT 215 with a grade of *C* or better. Further experimentation with sculpture concepts, materials, processes and tools, in search of personal meaning in a sculptural context. 6 studio hours.

**ARTT 218 Painting I<sup>S</sup>** **3 hrs (Sem I, II)**  
Prerequisite: ARTT 116 with a grade of *C* or better. An introduction to techniques of painting with oil. Students will use both representational and abstract approaches to subject matter, utilizing skills and knowledge obtained in the foundation courses of drawing, design and art history. 6 studio hours.

**ARTT 219 Painting II** **3 hrs (Sem I, II)**  
Prerequisite: ARTT 218 with a grade of *C* or better. An advanced study of painting with oil. Emphasis will be placed on the students' exploring their unique interests in the painting field. Both technical skill and clarity of individual expression should be enhanced by this course. 6 studio hours.

**ARTT 220 Photography I<sup>S</sup>** **3 hrs (Sem I, II)**  
Prerequisite: A grade of *C* or better in MATH 011, or appropriate test scores. An introduction to the fundamentals of developing black and white film and paper, and the use of the camera technically and as a tool for self-expression. A 35 mm camera with adjustable aperture and shutter and light meter required. Limited enrollment. 6 studio hours.

**ARTT 221 Photography II** **3 hrs (Sem I, II)**  
Prerequisite: ARTT 220. This course, an extension of Photography I, offers the opportunity for the advanced, individualized exploration of black and white and color photography. A 35mm camera with adjustable aperture and shutter and light meter required. Limited enrollment. 6 studio hours.

**§ARTT 232 History of Visual Design and Communication<sup>R/W</sup>** **3 hrs (Sem I, II)**  
Prerequisite: A grade of *C* or better in READ 011 if required, or SAT Reading score of 420 or greater, or appropriate placement test scores. A study of the history of visual design and communication from the Middle Ages to the present. Emphasis on the historical, social and economic context of movements in the field of design, as well as study of the contributions of individual designers and analysis of specific examples of design work. 3 class hours.

### American Sign Language

**§ASLG 101 American Sign Language I** **5 hrs (Sem I, II)**  
Prerequisites: A grade of *C* or better in READ 011 and ENGL 009, or SAT Reading score of 420 and SAT Writing score of 380 or greater, or appropriate placement tests scores. This course is intended to provide students with a base of nonverbal communication as a foundation for learning American Sign Language. This course content will focus upon self-introductions, exchanging personal information, talking about surroundings, telling where one lives, talking about one's family, and telling about activities. Opportunities for the application of skills learned will be provided. Class procedures will include both viewing videotapes of ASL and being videotaped while using ASL. 7 class hours.

**ASLG 103 American Sign Language II** **5 hrs (Sem I, II)**  
Prerequisites: ASLG 101 with a grade of *C* or better. A continuation of ASLG 101, this course involves giving directions, describing others, making requests, talking about family and occupations, attributing qualities to others, and talking about routines. Opportunities for the application of skills learned will be provided. Class procedures will include both viewing videotapes of ASL and being videotaped while using ASL. 7 class hours.

**§ASLG 111 The Deaf Community** **3 hrs (Sem I, II)**  
Prerequisites: A grade of *C* or better in READ 011 and ENGL 009, or SAT Reading score of 420 and SAT Writing score of 380 or greater, or appropriate placement tests scores. This course is designed to acquaint students with some of the basic sociological concepts which can be applied to the analysis of the community in which the deaf and the hard-of-hearing live. 3 lecture hours.

**ASLG 201 American Sign Language III** **5 hrs (Sem I, II)**  
Prerequisites: ASLG 103 and ASLG 111 with a grade of *C* or better; *and* a grade of *C* or better in or concurrent enrollment in ASLG 206. This course is the next phase in gaining fluency in ASL, and it focuses

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upon locating things in the household, making suggestions, and making requests. Opportunities for the application of skills learned will be provided. Class procedures will include both viewing videotapes of ASL and being videotaped while using ASL. 7 class hours.

**ASLG 203 American Sign Language IV**

**5 hrs (Sem I, II)**

Prerequisites: ASLG 201 and ASLG 206 with a grade of C or better. Corequisite: ASLG 207 and ASLG 220. This course is the final lower division component of the ASL series. It adds exchanging personal information: life events, describing and identifying things, and talking about the weekend. Interaction with various ASL models will be arranged. Opportunities for the application of skills learned will be provided. Class procedures will include both viewing videotapes of ASL and being videotaped while using ASL. 7 class hours.

**ASLG 206 American Sign Language Grammar**

**3 hrs (Sem I, II)**

Prerequisite: ASLG 103 and ENGL 250 with a grade of C or better. This course will increase the students understanding of the grammar of American Sign Language and provide an in-depth exploration and description of the major grammatical features of ASL with numerous illustrations and examples. It focuses on how ASL functions and how it is used in various ways within certain text/registers. 3 lecture hours.

**§ASLG 207 American Deaf Culture<sup>R/W/S</sup>**

**3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores; and ASLG 111 and SOCL 164 with a grade of C or better. This course will help students to analyze the content and the value of "culture" from various perspectives and will review the available research literature. This course will include a number of interactive exercises aimed at facilitating the students' understanding and experience of American Deaf Culture. 3 lecture hours.

**ASLG 215 Careers in American Sign Language**

**2 hrs (Sem I, II)**

Prerequisite: A grade of C or better in ASLG 111. This course is intended to give students an awareness of the possible careers that involve the knowledge and use of American Sign Language. 2 lecture hours.

**ASLG 220 Linguistic Structure of American Sign Language**

**3 hrs (Sem I, II)**

Prerequisite: ENGL 249, ASLG 201 and 206 with a grade of C or better. An analysis of the major structural features of American Sign Language: phonological, morphological, syntactic, semantic, and discourse. 3 lecture hours.

**Athletic Training/Sports Medicine**

**ATTR 199 Freshman Seminar: Athletic Training and Health Promotion**

**3 hrs (Sem I)**

Prerequisite: For Physical Education majors only. This course is designed to provide an introduction to higher education and an on-going orientation to VU resources, academic skills and social issues. Emphasis is placed on helping new athletic training and health promotion students adjust to college life, and establish skills needed to succeed academically and socially. Students will be engaged in a variety of discussions with reading assignments. 3 class hours.

**§ATTR 208 Athletic Training and Emergency First Aid**

**3 hrs (Sem II)**

Prerequisites: A grade of C or better in ENGL 009 and READ 009, or appropriate placement test scores. Introductory course for the coach, physical educator, or exercise and fitness specialist. Required of all physical education majors except those in Athletic Training Concentration. 3 lecture hours, 1 laboratory hour.

**§ATTR 209 Introduction to Athletic Training**

**3 hrs (Sem II)**

Prerequisites: A grade of C or better in ENGL 009 and READ 009, or appropriate placement test scores. Introductory Athletic Training course for any Health Sciences/Human Performance major. Other students may take this course with consent of instructor. Emphasis is on athletic training techniques, anatomy, and athletic injury evaluation. Required of all Physical Education majors in the Athletic Training Concentration. 3 lecture hours, 1 laboratory hour.

**ATTR 252 Athletic Training Practicum I**

**1 hr (Sem I)**

Students are required to complete specific clinic experiences and demonstrate competency in specific athletic training taping techniques. Activities supervised by NATA Certified Trainer. 3 class hours (minimum).

**ATTR 253 Athletic Training Practicum II**

**1 hr (Sem II)**

Prerequisites: ATTR 252; and a grade of C or better in or concurrent enrollment in ATTR 209. Continuation of ATTR 252. Students are required to complete specific athletic injury evaluation competencies that are introduced through lecture, demonstration, and laboratory experiences. 3 class hours (minimum).

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**ATTR 260 Therapeutic Techniques in Athletic Training<sup>S</sup>** **3 hrs (Offered on Demand)**  
Prerequisites: ATTR 209 and 252; and a grade of C or better in or concurrent enrollment in ATTR 253. Introduces therapeutic techniques in athletic training through lecture, clinical observation, and lab activity. Students must demonstrate competency in specific skills and techniques of selected athletic injury rehabilitation modalities and exercise equipment. 3 lecture hours, 1 laboratory hour.

**ATTR 263 Athletic Training Practicum III** **1 hr (Sem I)**  
Prerequisites: ATTR 209, 252, and 253. Students will be exposed to athletic training event and practice coverage with a VU or area high school varsity athletic team. Advanced therapeutic modality application techniques will be introduced and students must demonstrate competency in applying the modalities. Activities supervised by NATA Certified Athletic Trainer. Students must provide transportation. 3 class hours (minimum).

**ATTR 264 Athletic Training Practicum IV<sup>W/S</sup>** **1 hr (Sem II)**  
Prerequisites: ATTR 209, 252, 253, and 263. Continuation of ATTR 263. Students will have the opportunity to provide practice and event coverage for a VU varsity athletic team or a local high school team. Advanced culminating material will be introduced such as budgeting and facility design. Students will be evaluated on advanced skills and competencies through the program's exit exam and will be prepared to make application into a four-year athletic training program. Activities supervised by NATA Certified Athletic Trainer. Students must provide transportation. 3 class hours (minimum).

### **Automotive Technology**

**AUTO 100 Automobiles and You** **2 hrs (Sem I, II)**  
Course coverage includes instruction in basic automotive topics including minor mechanical maintenance and interior/exterior care. Additional instruction is given concerning automobile history, buying and selling automobiles, and future automotive trends. 2 lecture hours.

**AUTO 105 Transportation Fundamentals** **2 hrs (Sem I)**  
Course coverage includes instruction in personal and environmental safety practices as related to OSHA and other agencies that effect individuals working in the ground transportation technology areas. Additional instruction is given in the course on measurement principles and automotive fasteners. 2 lecture hours.

**AUTO 110 Transportation Electrical** **3 hrs (Sem I)**  
Corequisite: AUTO 110L. This course addresses the fundamental theories of electricity and electronics as applied to ground transportation technology area. Diagnosis and repair of basic battery, starting, charging, lighting, accessories, and wiring systems will be covered. Utilization of analog and digital meters, wiring diagrams, and other diagnostic tools will be stressed. 3 lecture hours.

**AUTO 110L Transportation Electrical Laboratory** **1 hr (Sem I)**  
Corequisite: AUTO 110. This course is a hands-on course that introduces the student to automotive electrical theory, batteries, charging systems, starting systems, wiring repairs, lighting systems and accessories. 3 laboratory hours.

**AUTO 115 Mechanical and Electrical Systems** **4 hrs (Sem I)**  
Prerequisite: AUTO 105. Corequisite: AUTO 115L. This course will address the diagnosis, removal, replacement, adjustment and repair of suspensions, brakes, wheels, alignments, air-conditioning and electrical systems related to the collision repair industry. 4 lecture hours.

**AUTO 115L Mechanical and Electrical Systems Laboratory** **4 hrs (Sem I)**  
Prerequisite: AUTO 105. Corequisite: AUTO 115. This course is a hands-on course that introduces the student to the repair of brakes, suspensions, electrical systems, HVAC systems, modern wheel alignment and inspection techniques. 12 laboratory hours.

**AUTO 120 Automotive Chassis Systems** **5 hrs (Sem I)**  
Corequisite: AUTO 120L. This course addresses the diagnosis, repair and various services related to wheel, brake, steering and suspension systems. Coverage will include wheel related services, disc and drum brakes, master cylinders, booster systems, antilock brake systems, four-wheel alignments and related repairs. 5 lecture hours.

**AUTO 120L Automotive Chassis Systems Laboratory** **3 hrs (Sem I)**  
Corequisite: AUTO 120. This course involves hands-on activities by introducing the student to the repair of wheel, brake, steering, and suspension systems, as well as wheel alignments. 9 laboratory hours.

**AUTO 130 Automotive Engine Systems** **4 hrs (Sem II)**

Corequisite: AUTO 130L. Instruction presents engine-operating principles and theories as well as hands-on training related to modern gasoline engines. Students will learn inspection, troubleshooting, overhaul and engine replacement procedures. 4 lecture hours.

**AUTO 130L Automotive Engine Systems Laboratory** **3 hrs (Sem II)**

Corequisite: AUTO 130. This course involves hands-on activities that introduce the student to the repair of automotive engine systems. The course will include inspections, troubleshooting, overhaul procedures, as well as engine replacement. 9 laboratory hours.

**AUTO 160 Automotive Electronics** **3 hrs (Sem II)**

Prerequisite: AUTO 110. Corequisite: AUTO 160L. A continuation of AUTO 110 which addresses the diagnosis and repair of various electrical and electronic systems commonly found on the automobile today. Electrical/electronic troubleshooting will be stressed. 3 lecture hours.

**AUTO 160L Automotive Electronics Laboratory** **1 hr (Sem II)**

Corequisite: AUTO 160. This course involves hands-on activities that introduce the student to the repair of various electrical and electronic systems frequently found on modern automobiles. Electrical/electronic troubleshooting will be stressed. 3 laboratory hours.

**§AUTO 210 Automotive Engine Performance<sup>R/W/S</sup>** **4 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores; and a grade of C or better in AUTO 105, 110, 130, and 160. Corequisite: AUTO 210L. Instruction presents theory and hands-on activities relating to diagnostic procedures, adjustment and/or replacement of computerized fuel injection and ignition system components. Emission control systems will also be covered in this course. 4 lecture hours.

**AUTO 210L Automotive Engine Performance Laboratory** **3 hrs (Sem II)**

Corequisite: AUTO 210. This course involves hands-on activities that introduce the student to the repair of computerized fuel injection and ignition system components. Emission control system repairs will also be covered in this course. 9 laboratory hours.

**AUTO 215 Automotive Drive Trains** **5 hrs (Sem I)**

Corequisite: AUTO 215. Instruction presents theory and work activities relating to the transfer of power from the engine to the drive wheels on rear, front, and four-wheel drive vehicles. Troubleshooting, repair, replacement, adjustment and preventative maintenance procedures will be presented for the service of clutches, drive shafts, differentials, drive axles, standard and automatic transmissions. 5 lecture hours.

**AUTO 215L Automotive Drive Trains Laboratory** **3 hrs (Sem I)**

Corequisite: AUTO 215. This course involves hands-on activities that introduce the student to the repair of clutches, drive shafts, differential assemblies, automatic and manual transmissions as well as transfer cases. 9 laboratory hours.

**AUTO 230 Transportation HVAC** **3 hrs (Sem I, II)**

Corequisite: AUTO 230L. This course will address theory, diagnosis, and repair of modern heating, ventilation and air-conditioning systems in modern vehicles. Environmental concerns related to service, recycling and recovery of materials will be stressed. Laboratory activities will present "major specific" topics. 3 lecture hours.

**AUTO 230L Transportation HVAC Laboratory** **1 hr (Sem I, II)**

Corequisite: AUTO 230. This course involves hands-on activities that introduce the student to the repair of heating, ventilation and air conditioning systems in modern vehicles. 3 laboratory hours.

**AUTO 280 Automotive Service Capstone** **3 hrs (Sem II)**

Corequisite: AUTO 210. This Capstone Course will present broad based review of all previous Automotive Coursework and requires the student to perform service work under realistic conditions. Job production is carefully related to flat-rate manual time requirements. 6 laboratory hours.

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## Broadcasting

NOTE: Students may register for 200 level broadcasting courses only if all 100 level broadcasting courses have been completed, or are in the process of completion, or by departmental approval.

A grade of C or better must be maintained in all courses in the major area or the course(s) must be repeated.

### **§BCST 100 Introduction to Mass Communications** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. A historical look at mass media with special emphasis on broadcasting, tracing its development from the earliest public broadcasts through the present; comparison of other media with respect to broadcasting. 3 lecture hours.

### **BCST 105 Introduction to Broadcast Production** **3 hrs (Sem I, II)**

The class gives Broadcasting majors and non-Broadcasting majors a very “hands-on” experience with audio and video production equipment. Basic camera, video switcher, and audio production boards are all examined. This class is designed for the Broadcasting major who must take an 009 developmental class. It will prepare the student for the Beginning Radio and Beginning TV labs. The class is open to all VU students. 3 lecture hours.

### **BCST 110 Broadcast Performance<sup>S</sup>** **3 hrs (Sem I, II)**

Designed to provide both theory and practice in the voice and visual aspects of radio and television performance. Includes oral interpretation, reading skills, copy analysis, on-camera movement and delivery, voice mechanism anatomy and function, microphone techniques, interview skills and techniques, characterization and improvisation. 2 lecture hours, 1 laboratory hour.

### **§BCST 120 Beginning Radio Production** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009, ENGL 009 and MATH 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. A basic radio production course designed to acquaint students with the fundamental principles of radio program production; tape recording, editing, interviewing and microphone techniques. Laboratory exercises conducted in University radio studios. (*For Broadcast majors only.*) 3 lecture hours, 2 laboratory hours, 2 studio hours.

### **§BCST 140 Beginning Television Production** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009, ENGL 009 and MATH 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. A basic television production course which includes lighting and camera techniques and principles of television directing. Laboratory exercises conducted in University television studios. (*For Broadcast majors only.*) 3 lecture hours, 2 laboratory hours, 2 studio hours.

### **§BCST 150 Broadcast Sales I** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009, ENGL 009 and MATH 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. Basic overview of broadcast law, broadcast sales, current trends, and structural organization and operation of local radio and television sales departments. (*For Broadcasting majors only.*) 3 lecture hours.

### **BCST 161 Advanced Radio Production** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in BCST 120. An advanced radio production course to help build audio production skills. Special attention is paid to commercial production and on-air skills. (*For Broadcast majors only.*) 3 lecture hours, 2 laboratory hours, 2 studio hours.

### **BCST 180 Advanced Television Production** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in BCST 140. Advanced television production course to continue sharpening students' television production skills with special attention to television production and simple television newscasts, in addition to editing techniques and skills. (*For Broadcast majors only.*) 3 lecture hours, 2 laboratory hours, 2 studio hours.

### **BCST 205 Sports Media** **3 hrs (Sem II)**

Course focuses on media coverage of sports events, sports reporting, and play-by-play announcing. Also covers non-broadcast areas such as team public relations, sports information, print coverage, sports marketing and advertising. 3 lecture hours.

### **BCST 210 Broadcast Promotion** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in ENGL 109 Broadcast Writing. Introduces theories and concepts needed to market and promote broadcast stations, build advertising campaigns, press and public relations, image building, on-air and off-air promotions, plus contest design and execution. (*For Broadcast majors only.*) 3 lecture hours.

**BCST 221 Broadcast Programming** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in BCST 161. Broadcast Programming theories, planning, and practices. Introduces program acquisition, networks and syndication, audience research and ratings practices plus copyright and related laws and regulations. (*For Broadcast majors only*). 3 lecture hours, 4 laboratory hours.

**BCST 235 Newsroom Operations<sup>W</sup>** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in ENGL 109 Broadcast Writing. Designed to provide practical experience and insight into daily functions of a broadcast newsroom. Concentration on coverage, reporting, and writing of news stories for radio and television, using the computerized newsroom facilities of the Broadcast Department. (*For Broadcast majors only*.) 3 lecture hours, 1 laboratory hour.

**§BCST 240 Broadcast Management<sup>R</sup>** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, *and* a grade of C or better in BCST 161. Introduces management functions and operations in broadcast station. Examines problems and activities of budgeting, personnel, sales, community relations and other areas of management responsibility; corporate and administrative structures. (*For Broadcast majors only*.) 3 lecture hours, 8 laboratory hours.

**BCST 250 Broadcast Sales II<sup>W</sup>** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in BCST 150. In-depth look at daily problems and procedures involved in broadcast sales. Practical experience provided by actual side-by-side work with the professional staff of University-operated commercial radio station, with emphasis on customer service and closing a sale. (*For Broadcast Majors only*.) 3 lecture hours, 2 laboratory hours.

**BCST 260 Video Editing and Post-Production** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in BCST 180. Overview of editing process in both technical and logistical terms plus aesthetic and organizational perspectives. How to plan for efficiency and cost savings, continuity and pacing, editing style and proper use of effects plus dealing with facilities and technical problems that occur. (*For Broadcast majors only*.) 3 lecture hours, 1 laboratory hour, 5 studio hours.

**BCST 270 Electronic News Gathering/Electronic Field Production (ENG/EFP)** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in BCST 180. Comprehensive television production course with emphasis on news and field production. Students shoot news stories and/or sports footage for WVUT-TV. (*For Broadcast majors only*.) 3 lecture hours, 1 laboratory hour, 3 studio hours.

**BCST 280 Television Program Production and Directing<sup>S</sup>** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in BCST 180. Concentrates on advanced skills needed to produce and direct television programs to include producing daily half-hour newscasts as well as some public affairs specials for live broadcast on the University's public television station. Also considers interaction among different departments of television stations required for successful programming and production. (*For Broadcast majors only*). 3 hours lecture, 10 laboratory hours.

**BCST 285 Internship in Broadcasting** **4 hrs (Sem I, II, Summer)**

Prerequisite: Minimum of 2.0 cumulative GPA at last grading period. Internship with a commercial broadcasting station for interested and qualified students. Director of Broadcasting supervises internship. Minimum of 200 practicum hours.

**Business Internship**

Following the first year of study, a limited number of internship opportunities may be available to qualified students enrolled in any of the Occupational Business programs. These courses may be taken to satisfy the "Elective(s)" requirement found in most programs. Generally, Business Internships will consist of supervised part-time work experience during the summer months. The actual number of Business Internship opportunities may vary considerably from year to year and, consequently, enrollment will be limited. However, students who are already employed or who are anticipating part-time employment should confer with their academic advisors and/or the Internship Coordinator to determine whether their work experience might qualify for Business Internship credit. In any event, the general requirements for all Internships are as follows: (1) the work experience must be closely related to the student's major area of study; (2) the employer/supervisor at the place of employment must agree to participate in the training and evaluation phases of the internship; (3) the student must work a minimum number of clock hours for each Internship and complete whatever other projects are required by the coordinator; (4) the Internship must be approved by the Internship Coordinator.

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**§BINT 205 Business Internship I<sup>R/W/S</sup>****3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A minimum of 240 hours of work experience related to the student's major area of study, periodic reports based on the work experience, and the employer/supervisor's evaluation are the basic requirements.

**§BINT 206 Business Internship II<sup>R/W/S</sup>****3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores and BINT 205. A continuation of BINT 205 and the same requirements for the internship credit apply.

**BINT 207 Logistics Internship****3 hrs (Sem I)**

Following the first year of study, the student will participate in internship opportunities. However, students who are already employed or who are anticipating part-time employment should confer with their academic advisors and/or the Internship Coordinator to determine whether their work experience might qualify for Business Internship credit. In any event, the general requirements for Internships are as follows: (1) the work experience must be closely related to the student's major area of study; (2) the employer/supervisor at the place of employment must agree to participate in the training and evaluation phases of the internship; (3) the student must work a minimum number of clock hours for each Internship and complete a written report on experiences encountered during the internship period (4) the Internship must be approved by the Internship Coordinator. Minimum of 200 practicum hours.

**Biomedical Electronics Technology****BIOM 200 Biomedical Electronics I****6 hrs (Sem I)**

Prerequisites: A grade of C or better in ELEC 151. An initial course containing information of medical terminology, hospital systems and safety, basic transducers, safety analyzers, and biomedical electronic equipment and test equipment operation and maintenance. Students are introduced to medical and patient interfacing devices. Diagnostic, monitoring and treatment devices are covered. Included are laboratory exercises consisting of the operation, preventive maintenance, and troubleshooting of biomedical systems. Special emphasis is placed on safety issues, such as ground potentials, and intermachine potentials. 3 lecture hours, 9 laboratory hours.

**§BIOM 250 Biomedical Electronics II<sup>R/W/S</sup>****6 hrs (Sem II)**

Prerequisites: A grade of C or better in BIOM 200. This course is an advanced continuation of the study of biomedical equipment, which measure biopotentials including the ECG Waveform. A hands-on approach is taken with emphasis on medical devices which include therapeutic equipment, vital signs monitoring systems, RF Telemetry theory and equipment. Infusion delivery systems, stress testing systems, Electro-surgical equipment, Infant Monitoring systems and an overview of various imaging systems. 3 lecture hours, 9 laboratory hours.

**BIOM 290 Biomedical Internship****3 hrs (Summer)**

Prerequisite: A grade of C or better in BIOM 200, and a grade of C or better in or concurrent enrollment in BIOM 250. This optional internship will be conducted in cooperation with area hospital biomedical electronic repair facilities. Students will engage in preventive maintenance, repair, and calibration of biomedical equipment under the supervision of the institution's biomedical technicians. The Candidate for Certification examination will be administered by the AAMI at the completion of the internship and professional time constraints are met. A minimum of 200 internship hours is required.

**Business Law****BLAW 200 Legal and Related Issues in Business****3 hrs (Sem I, II)**

The purpose of this course is to develop sensitivity for the numerous legal and related issues in the competitive business world. Case studies are used to examine legal and value systems as a foundation for business decisions. Focus is placed on developing, applying, and evaluating personal values as they impact stakeholders. 3 lecture hours.

**§BLAW 201 Commercial Law I<sup>R/W/S</sup>****3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. The judicial system, basic concepts of negligence and strict liability, sales law, contract law, and negotiable instruments. 3 lecture hours.

**§BLAW 202 Commercial Law II<sup>R/W/S</sup>****3 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Corporation, partnership, trust, and agency law, plus secured transactions and bailments. 3 lecture hours.

**§BLAW 203 Legal Environment of Business<sup>R/W/S</sup>****3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011 and ENGL 009, or SAT Reading score of 420 and SAT Writing score of 380 or greater, or appropriate placement test scores. The following areas will be covered: judicial system, relevant government regulations, constitutional law, common law, antitrust law, and securities regulation. 3 lecture hours.

**Collision Repair and Refinishing****BODY 100 Body Repair I****5 hrs (Sem I)**

Corequisite: BODY 100L. Instruction presents a description of opportunities, activities, equipment, materials, safety, MIG welding, measuring processes, and the use of repair information and crash estimating manuals in the collision repair industry. Students will develop skills in body panel straightening metal finishing, moveable glass and hardware replacement, sheet metal replacement and aligning, and plastic repairing. 5 lecture hours.

**BODY 100L Body Repair Laboratory I****3 hrs (Sem I)**

Corequisite: BODY 100. This course introduces the student to body panel straightening, metal finishing, moveable glass and hardware repairs, plastic repairs, and sheet metal replacement and alignment. 9 laboratory hours.

**BODY 150 Body Repair II****5 hrs (Sem II)**

Corequisite: BODY 150L. Students will continue building on those skills developed in BODY 100 in addition to developing new skills in paint surface preparation, masking techniques, spray guns (standard and HVLP) and their operations, paint mixing, matching and applying, paint finish defects courses and cures, final detailing. 5 lecture hours.

**BODY 150L Body Repair Laboratory II****3 hrs (Sem II)**

Corequisite: BODY 150. This is a hands-on course that introduces the student to automotive refinishing. Emphasis will be placed on surface preparation, masking techniques, spray gun operation, paint mixing, matching and application, identification and correction of paint defects, and final detailing. 9 laboratory hours.

**§BODY 200 Body Repair III****5 hrs (Sem I)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Corequisite: BODY 200L. Students will continue to build on those skills developed in BODY 100 and 150 in addition to developing new skills in structural damage analysis, conventional and unibody frame measuring and repairing, fixed glass replacement, door skin and quarter panel replacements. 5 lecture hours.

**§BODY 200L Body Repair Laboratory III****4 hrs (Sem I)**

Corequisite: BODY 200. This is a hands-on course that introduces the student to structural damage analysis, conventional and unibody frame measuring and repairs, as well as door skin and quarter panel replacements. 12 laboratory hours.

**BODY 250 Body Repair IV<sup>R/W/S</sup>****5 hrs (Sem II)**

Corequisite: BODY 250L. Students will build on those skills developed in BODY 100, 150 and 200 in addition to developing advanced skills in collision damage analysis, repairing and refinishing. Instruction presents a broad based review of all previous Auto Body course work and requires students to perform high quality repairs under more realistic conditions. Repair estimate time versus time to complete repair job is stressed. 5 lecture hours.

**BODY 250L Body Repair Laboratory IV<sup>R/W/S</sup>****4 hrs (Sem II)**

Corequisite: BODY 250. This course involves hands-on activities that simulate working in the Collision Repair Industry. The student will demonstrate all of the skills that have been learned in subsequent Collision Repair Courses. 12 laboratory hours.

**Bowling Industry Management and Technology****BOWL 101 Lane and Pinsetter Maintenance I****3 hrs (Sem I)**

This course provides an introduction to the principles of lane care and the use of related equipment. At the same time, it also introduces students to the Brunswick Pinsetter, its components, and the most common areas of malfunction. 2 lecture hours, 2 laboratory hours.

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**BOWL 106 Lane and Pinsetter Laboratory I** **3 hrs (Sem I)**

This laboratory is the working lab in which students actually carry out the normal operations involved with lane care and basic pinsetter maintenance. The course provides the manager with the information needed to interact with and supervise the lane care person and the pinsetter mechanic trained on Brunswick equipment. 6 laboratory hours.

**BOWL 151 Lane and Pinsetter Maintenance II** **3 hrs (Sem II)**

This course provides an introduction into the use of the lane care equipment and developing lane conditioner patterns and lane maintenance schedules. The course also introduces students to the AMF Pinsetter, its components, and the most common areas of malfunction. 2 lecture hours, 2 laboratory hours.

**BOWL 156 Lane and Pinsetter Laboratory II** **3 hrs (Sem II)**

This laboratory is the working lab in which students actually carry out the advanced techniques involved in lane care and conditioner application. In addition, the course provides the manager with the information needed to interact with and supervise the lane care person and the pinsetter mechanic trained on AMF equipment. 6 laboratory hours.

**BOWL 205 Pro Shop Operations and Instruction** **3 hrs (Sem I)**

This course provides students with the necessary skills to operate the Pro Shop. These skills include hand-measuring, drilling, and sales techniques related to bowling balls. The course introduces students to the fiscal management of the Pro Shop. Students will also acquire a knowledge of the basic techniques of bowling instruction and customer relations. 2 lecture hours, 2 laboratory hours.

**BOWL 210 Bowling Lanes Management I<sup>S</sup>** **3 hrs (Sem I)**

A practical program in the management of the bowling operation. Covers the financial aspect of the operations pertinent to showing profit. 3 lecture hours.

**BOWL 215 Management and Pro Shop Laboratory I** **2 hrs (Sem I)**

This laboratory is a working lab in which students actually work in the bowling facility doing counter work, operating pro shop equipment in relation to ball sales, drilling, and maintenance. Students will also develop and carry out projects for special events like those required for the operation of a successful facility. 4 laboratory hours.

**§BOWL 220 Lineage Development<sup>R/W</sup>** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Designed to help students develop lineage programs of all types (leagues, tournaments, and special events) and learn all rules and regulations of the American Bowling Congress. Students will be introduced to the techniques for outside sales and marketing to ensure the success of these events. 3 lecture hours.

**BOWL 270 Bowling Lanes Management II** **3 hrs (Sem II)**

Continuation of BOWL 210. Includes all phases of the bowling management operation such as personnel, public relations, and employee expense rates. 3 lecture hours, 2 laboratory hours.

**BOWL 275 Management and Pro Shop Laboratory II** **2 hrs (Sem II)**

This laboratory is a management-directed working lab in which the students will develop projects more related to the business operations of the bowling facility: develop budgets to meet facility scenarios, profit and loss statements, cost analyses of overall operations including not only basic operations, but also of special events and payroll. In addition, the pro shop component will involve practice to improve speed and accuracy of operation and to gain stronger customer relations skills. 4 laboratory hours.

**BOWL 290 Bowling Management Internship** **3 hrs (Summer)**

Prerequisite: Admission to the Bowling Industry Management and Technology Program; completion of 30 credit hours; and a minimum 2.7 cumulative GPA. Students will find approved placement in a commercial, institutional or military bowling center as an assistant to the management staff. A minimum of 300 hours of on-site work must be completed in an eight- to ten-week period. An orientation to the center, work assignments related to personnel management, open bowling, league organization and promotion, tournaments, center promotion, business and budget planning, and equipment and facility issues must be experienced under the supervision of a current on-site center manager. An independent project must be completed at the internship site. Minimum of 300 practicum hours.

**Business and Public Service, General**

**§BPSD 199 Freshman Seminar** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement score. This course is designed to provide an introduction to college and an orientation for the students to the various services provided by VU. The course provides for developing academic success skills. Students will be engaged in a variety of discussions, group projects, student presentations, and reading assignments. Emphasis will be placed on succeeding in a diverse com-

munity of learners. Additionally, a component of the course, which may vary from section to section, will develop knowledge and skills necessary for the students to succeed in career choices within the Business and Public Service Division. 3 lecture hours.

**‡BPSD 423 Medical Law** **3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. This course will review major ethical theories; ethical decision making models; application to patients' rights, confidentiality, informed consent, professional relationships, and the allocation of scarce resources. Documentation, privacy, security, release of health information, liability, consent, and malpractice are discussed in relation to current health care laws. 3 lecture hours.

**Business**

**BUSM 100 Business Fundamentals** **3 hrs (Sem I, II)**

This course is designed to provide an examination of business terminology and practices and an ongoing orientation to VU resources, academic skills, and social issues. Emphasis is placed on helping new business students adjust to college life and establish skills needed to succeed academically and socially. Students will be engaged in a variety of activities, discussions, writing assignments, and reading assignments. The course is taken in conjunction with ENGL 009 and/or READ 009/READ 011. 3 lecture hours.

**Chemistry**

**§CHEM 100 Elementary Chemistry** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in or concurrent enrollment in READ 011 and MATH 012 or appropriate placement test scores. Corequisite: CHEM 100L. An introduction to the basics of inorganic chemistry with a study of the chemical and physical properties, and changes of matter including measurement, nomenclature, reactions, and stoichiometry, including a discussion of nuclear chemistry. 3 lecture hours.

**§CHEM 100L Elementary Chemistry Laboratory** **1 hr (Sem I, II)**

Corequisite: CHEM 100. Experiments to illustrate concepts of CHEM 100. 3 laboratory hours.

**§CHEM 101 Elementary Organic Chemistry and Biochemistry** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in CHEM 100 and CHEM 100L, or CHEM 103 and CHEM 103L, or CHEM 111. Co-requisite: CHEM 101L. (A full year of high school chemistry may be substituted for CHEM 100/CHEM 100L or CHEM 103/CHEM 103L or CHEM 111.) An introduction to basic nomenclature and reactions of organic functional groups, and a brief study of the function, structure, and metabolism of the macromolecules of the living system with an introduction to body fluids. *This course is a transferIN course.* 3 lecture hours.

**§CHEM 101L Elementary Organic Chemistry and Biochemistry Laboratory** **1 hr (Sem I, II)**

Corequisite: CHEM 101. Experiments to illustrate properties and reactions of organic and biochemical groups. *This course is a transferIN course.* 3 laboratory hours.

**CHEM 102 Scientific and Decorative Glass Working** **2 hrs (Sem II)**

Fundamentals of working with glass tubing and rods. Techniques of end seals and tee tubes used to introduce the "feel" of handling glass; shaping glass tubing and crocheting glass rods. Proficiency required in end seals, tee tubes u-bends, flairs, and ring seals. A scientific project, an art project, and a project of the students' choice are required. 2 laboratory hours.

**§CHEM 103 Introduction to Chemistry** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in or concurrent enrollment in MATH 012 or appropriate placement test scores; and must qualify for ENGL 101. Corequisite: CHEM 103L. This course is designed for students who want to take CHEM 105 General Chemistry I, but do not have the prerequisites. It teaches the basics of inorganic nomenclature, equation writing, stoichiometry, gas laws and other skills and topics to prepare a student for General Chemistry. 3 lecture hours.

**§CHEM 103L Introduction to Chemistry Laboratory** **2 hrs (Sem I, II)**

Corequisite: CHEM 103. Examines principles of CHEM 103; designed to be taken with CHEM 103. Emphasizes development of laboratory skills. Experiment topics include the metric system, classes of chemical reactions, gravimetric analysis, titrations, gas laws, and qualitative analysis. Fulfills the lab science requirement for graduation when taken with CHEM 103. 6 laboratory hours.

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‡ Any course identified with a ‡ requires junior level standing or consent of the instructor.



**§CHEM 104 Consumer Science** **4 hrs (Sem I, II)**

Prerequisites: Students must qualify for READ 011, MATH 011, and ENGL 101. Course examines the scientific method, metric system of units, basic atomic structure, periodic table and how chemicals are involved in everyday life including foods, medicines, cosmetics, polymers, acids and bases. Laboratory concentrates on common household reactions and simple reaction products commonly found in and around the home and workplace. *This course is a transferIN course.* 3 lecture hours, 2 laboratory hours.

**§CHEM 105 General Chemistry I** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores; and a grade of C or better in MATH 101, or a CPTS EA score of 74 or greater. Corequisite: CHEM 105L. (High school chemistry or completion of CHEM 103/CHEM 103L with a grade of C or better is required for enrollment in CHEM 105. MATH 101 may be a corequisite only after completing CHEM 103/CHEM 103L.) Laws and principles of chemistry including stoichiometry, gas laws, atomic and molecular structure, nomenclature and equation writing and balancing. Numerical problems and relationships are introduced whenever quantitative treatment is possible. This course is a transferIN course. 3 lecture hours.

**§CHEM 105L General Chemistry/Quantitative Analysis Laboratory** **2 hrs (Sem I, II)**

Corequisite: CHEM 105. Examines principles of CHEM 105; designed to be taken with CHEM 105. Experiment topics include descriptive chemistry, periodic trends, gravimetric analysis, volumetric analysis, instrumental techniques, gas laws, and identification by qualitative techniques. Fulfills the lab science requirement for graduation when taken with CHEM 105. *This course is a transferIN course.* 6 laboratory hours.

**§CHEM 106 General Chemistry II<sup>R</sup>** **3 hrs (Sem I, II)**

Prerequisites: CHEM 105; and MATH 102 or higher or a CPTC score of 55 or higher. CHEM 105L may be taken concurrently. Continuation of CHEM 105 with emphasis on Thermochemistry, Electrochemistry, Kinetics, Equilibrium, Behavior of acids, bases, and salts, and Coordination Chemistry. *This course is a transferIN course.* 3 lecture hours.

**§CHEM 106L General Chemistry/Qualitative Analysis Laboratory<sup>W</sup>** **2 hrs (Sem I, II)**

Prerequisites: CHEM 105 and CHEM 105L. Corequisite: CHEM 106. Examines the principles in CHEM 106 with experiments in Thermochemistry, Kinetics, Equilibrium, Behavior of acids, bases, and salts, Thermodynamics and Qualitative Analysis. In qualitative analysis, emphasis will be placed on observations and equation-writing, as well as conclusions. Separate notebooks will be used to record this information. *This course is a transferIN course.* 6 laboratory hours.

**§CHEM 107 World of Chemistry** **4 hrs (Sem I, II)**

Prerequisites: Students must qualify for READ 011, MATH 011, and ENGL 101. This course presents a unified view of science and practice of chemistry. It is an introductory college chemistry course for students not majoring in the sciences. It presents a view of the molecular world and the fundamental role it plays in the phenomena we observe in daily life. It also helps students understand the major scientific and technological issues facing all of us as citizens and consumers. The laboratory is performed with chemicals that are available from grocery stores, drug stores or hardware stores and are found in most homes. *(Offered through degree completion as an internet course with a laboratory component)* 4 lecture/laboratory hours.

**CHEM 108 Chemistry for the Studio Artist** **3 hrs (Sem II)**

Introduction to organic and inorganic chemistry with emphasis on compounds and reactions used in art. Chemistry of silver halides and diazo systems, screen-printing, lithography and flexography; properties of cement, metals, plaster and stones and their reactions. Potential danger of each chemical and its safe use emphasized. 3 lecture hours, 2 laboratory hours.

**CHEM 110 General, Organic and Biochemistry** **5 hrs (Sem I, II, Summer)**

Prerequisites: A grade of C or better in READ 009, ENGL 009 and MATH 011, or appropriate placement test scores. Students will learn basic structure, reactions, nomenclature, and physical/chemical properties of inorganic, organic, and biochemical compounds. *Offered through Distance Education only.* 4 lecture, 2 laboratory hours.

**CHEM 111 Chemistry I** **4 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011 and ENGL 009, or SAT Reading score of 420 and SAT Writing score of 380 or greater, or appropriate placement test scores; and a grade of C or better in MATH 101, or a CPTS EA score of 74 or greater. An introductory course that includes the science of chemistry and measurement, atomic theory and the periodic table, chemical bonding, stoichiometry, liquids and sol-

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ids, gases and the ideal gas law, solutions, and acids and bases. (*Offered through degree completion as an internet course with a laboratory component*) 3 lecture hours, 2 laboratory hours.

**CHEM 112 Chemistry of Food Preparation** **4 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 009, ENGL 009 and MATH 011, or appropriate placement test scores. Students will learn basic structure, reactions, nomenclature and physical/chemical properties of inorganic, organic and biochemical compounds and how they apply to the preparation of food and the nutritional value of food. 3 lecture, 2 laboratory hours.

**§CHEM 120 Chemistry of Hazardous Materials** **3 hrs (Sem II)**

Prerequisites: Students must qualify for READ 011, MATH 011, and ENGL 101. Course examines the metric system of units, basic atomic structure, periodic table, nomenclature, physical and chemical properties of salts, inorganic and organic compounds and their basic reactions and hazardous effects. Course includes an in depth study of the 9 classes of hazardous materials as defined by DOT, OSHA, and EPA. Lab concentrates on the properties and reactions involving hazardous materials. 2 lecture hours, 2 laboratory hours.

**CHEM 204 Elementary Quantitative Analysis** **4 hrs (Sem I)**

Prerequisites: CHEM 106 and CHEM 106L. Gravimetric and volumetric methods of analysis and stoichiometric relationships. Lecture, lab and problems. 2 lecture hours, 6 laboratory hours.

**CHEM 206 Principles of Organic Chemistry** **3 hrs (Sem II)**

Prerequisite: CHEM 106. CHEM 106L may be taken concurrently. Fundamental chemistry of basic carbon compounds and their derivatives. Exercises in preparation and properties of simpler carbon compounds. 3 lecture hours.

**CHEM 206L Principles of Organic Chemistry Laboratory** **2 hrs (Sem II)**

Corequisite: CHEM 206. Examines principles of CHEM 206. 6 laboratory hours.

**CHEM 215 Organic Chemistry I** **3 hrs (Sem I)**

Prerequisites: CHEM 106 and CHEM 106L with a grade of C or better. Corequisite: CHEM 215L. A survey of the functional groups of organic compounds and their simple derivatives in terms of nomenclature, structure, bonding, syntheses, reactions, and stereochemistry. Physical and chemical properties are examined for each functional group and related to the structure. Students examine reactivity orders, orientation effects, and reaction rates. 3 lecture hours.

**CHEM 215L Organic Chemistry Laboratory I<sup>W/S</sup>** **2 hrs (Sem I)**

Corequisite: CHEM 215. This laboratory course focuses on the fundamental techniques of organic chemistry. Students learn the techniques of distillation, extraction, recrystallization, and chromatography. They apply instrumentation techniques including Infrared Spectroscopy (IR), Gas Chromatography (GC), and Nuclear Magnetic Resonance (NMR) to determine the structure of unknown compounds. Students make predictions using a molecular modeling program. Students improve their science writing skills and make an oral presentation to their peers. 6 laboratory hours.

**CHEM 216 Organic Chemistry II** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in CHEM 215 and CHEM 215L. This course lays the groundwork for more complex topics by teaching students how to think about chemical mechanisms, introducing the concepts of electrophilicity, nucleophilicity, addition reactions, and substitution reactions. It introduces classic methods for carbon-carbon bond formation, including the use of enolates and rearrangement reactions. Students learn to predict the relative reactivity of functional groups and are introduced to the concepts of thermodynamic and kinetic control. 3 lecture hours.

**CHEM 216L Organic Chemistry Laboratory II<sup>W/S</sup>** **2 hrs (Sem II)**

Corequisite: CHEM 216. A continuation of CHEM 215L. Many of the experiments are multi-step preparations with a greater emphasis on discovery style and experiments that require a team approach. Laboratory reporting includes formal reports similar to the preparation for journal publication and an oral report in a form suitable for professional meeting presentation. 6 laboratory hours.

**CHEM 240 Leadership in Chemistry Education** **2 hrs (Sem I, II)**

Prerequisites: Permission of instructor and a previous chemistry equivalent to the PLTL chemistry course the student will lead. In this course, students are trained in group dynamics incorporating learning theory, learning styles, and collaborative learning principles. The CHEM 103 chemistry professor leads weekly meetings of the Peer Leaders in which examples relating to course content and facilitation strategies are

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addressed. The Peer Leaders are expected to function as “discussion facilitators” and lead their students to work with each other to construct their own answers to the problems. 2 lecture hours.

### **CHEM 315 Organic Chemistry I**

**3 hrs (Sem I)**

Prerequisites: CHEM 106 and CHEM 106L with a grade of C or better. Co requisite: CHEM 315L. A survey of the functional groups of organic compounds and their simple derivatives in terms of nomenclature, structure, bonding, syntheses, reactions, and stereochemistry. Physical and chemical properties are examined for each functional group and related to the structure. Students examine reactivity orders, orientation effects, and reaction rates. Students submit a paper using a formal argument to correlate molecular structure to observed properties of reaction type. 3 lecture hours.

### **CHEM 315L Organic Chemistry Laboratory I<sup>W/S</sup>**

**2 hrs (Sem I)**

Corequisite: CHEM 315. This laboratory course focuses on the fundamental techniques of organic chemistry. Students learn the techniques of distillation, extraction, recrystallization, and chromatography. They apply instrumentation techniques including Infrared Spectroscopy (IR), Gas Chromatography (GC), and Nuclear Magnetic Resonance (NMR) to determine the structure of unknown compounds. There is an emphasis on instrument calibration. Students make predictions using a molecular modeling program. Students improve their science writing skills and make an oral presentation to their peers. 6 laboratory hours.

### **CHEM 316 Organic Chemistry II**

**3 hrs (Sem II)**

Prerequisite: A grade of C or better in CHEM 315 and CHEM 315L. This course lays the groundwork for more complex topics by teaching students how to think about chemical mechanisms, introducing the concepts of electrophilicity, nucleophilicity, addition reactions, and substitution reactions. It introduces classic methods for carbon-carbon bond formation, including the use of enolates and rearrangement reactions. Students learn to predict the relative reactivity of functional groups and are introduced to the concepts of thermodynamic and kinetic control. Students submit a paper using a formal argument to correlate molecular structure to observed properties of reaction type. 3 lecture hours.

### **CHEM 316L Organic Chemistry Laboratory II<sup>W/S</sup>**

**2 hrs (Sem II)**

Corequisite: CHEM 316. A continuation of CHEM 315L. Many of the experiments are multi-step preparations with a greater emphasis on discovery style and experiments that require a team approach. Instrumentation techniques learned in CHEM 315L will be applied. Laboratory reporting includes formal reports similar to the preparation for journal publication and an oral report in a form suitable for professional meeting presentation. 6 laboratory hours.

### **♠CHEM 325 Introductory Physical Chemistry**

**4 hrs (Sem I)**

Prerequisites: A grade of C or better in CHEM 106 and PHYS 206; and a grade of C or better in MATH 116 or higher; and junior level standing or consent of the instructor. Course examines the fundamental gas laws including KMT and Boltzmann distribution, thermodynamics including calorimetry, free energy, entropy, equilibrium, chemical kinetics and catalysis. Fundamental quantum mechanics including wave functions, particle in the box and spectroscopy are also covered. Lab concentrates on error analysis, calorimetry, equilibrium, kinetics, UV and visible spectroscopy, vibrational spectroscopy, and rotational spectroscopy. 3 lecture hours, 3 laboratory hours.

### **CHEM 426 Biochemistry**

**4 hrs (Sem II)**

Prerequisite: A grade of C or better in CHEM 216 and CHEM 216L; or a grade of C or better in CHEM 316 and CHEM 316L. This course is a study of the function and structure of biological molecules including proteins, nucleic acids, carbohydrates and lipids. Other topics include bioenergetics, membranes, hemoglobin, muscles, informational metabolism and intermediate metabolism of carbohydrates and lipid metabolism. Electron transport and oxidative phosphorylation are also studied. 3 lecture hours, 3 laboratory hours.

## **Chemical Engineering**

### **CHME 208 Chemical Engineering Calculations**

**3 hrs (Sem II)**

Prerequisites: MATH 118 or higher; and CHEM 106 and PHYS 205. Introduction to engineering calculations, material and energy balances including use of chemical equations; yield of a chemical process; handling of multiple, bypass, and recycle streams; and introduction to first law of thermodynamics as it applies to each problem. 3 lecture hours, 1 class hour.

## **Technical Chemistry**

### **CHMT 100 Fuels, Lubricants and Coolants**

**4 hrs (Sem I)**

Source, refining and design of petroleum products; artificial or man-made oils, lubricants, and coolants. 3 lecture hours, 2 laboratory hours.

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## Computer Integrated Manufacturing Technology

### **§CIMT 100 Electronics for Automation I** 3 hrs (Sem I)

Prerequisites: A grade of C or better in or concurrent enrollment in MATH 012 or MATT 106. Corequisite: CIMT 100L. An introductory course in the theory, characteristics, and application of basic electronic components used in AC, DC, and digital electronic circuits. Topics will include circuit analysis, measurement, and troubleshooting. 3 lecture hours.

### **§CIMT 100L Electronics for Automation Laboratory I** 3 hrs (Sem I)

Corequisite: CIMT 100. This course emphasizes the building, analyzing, and troubleshooting of AC, DC, and Digital electronic circuits. 9 laboratory hours.

### **§CIMT 125 Introduction to Robotics and Automation** 2 hrs (Sem I)

Prerequisite: A grade of C or better in or concurrent enrollment in MATH 011 or higher. Corequisite: CIMT 125L. This course covers computer literacy plus an introduction to robotics Computer Integrated Manufacturing in industry. Emphasis is placed on robotic workcell basics; including programming a six axis articulated robot. Various topics cover robotic classifications, applications, socioeconomic impact, workcell design, robot programming (Pendant and Software Language), Quick BASIC, sensor and actuator interfacing, plus a project centered around a CIM Workcell. 2 lecture hours.

### **§CIMT 125L Introduction to Robotics and Automation Laboratory** 2 hrs (Sem I)

Corequisite: CIMT 125. This course emphasizes robot programming using pendant and software, interfacing to I/O devices, and Visual BASIC programming. 6 laboratory hours.

### **CIMT 140 Mechanical Drives** 2 hrs (Sem I)

Corequisite: CIMT 140L. A study of the operation, application, and maintenance of the following mechanical components: gears, sheaths, pulleys, sprockets, chains, bearings, belts, couplings, clutches, and brakes. Other topics include lubrication, alignment, troubleshooting, measurements, tools, hardware, materials, drawings, dimensions, and drive ratios. 2 lecture hours.

### **CIMT 140L Mechanical Drives Laboratory** 1 hr (Sem I)

Corequisite: CIMT 140. This course emphasizes the setup, alignment, and measurement of single and multi-shaft drive systems using sprockets, pulleys, and gears. 3 laboratory hours.

### **CIMT 150 Electronic and Electrical Applications for Manufacturing** 2 hrs (Sem II)

Prerequisites: CIMT 100 and CIMT 100L. Corequisite: CIMT 150L. One half of this course will cover the theory, characteristics, and application of electronic components used in automation control and sensing applications. Students will build, measure, and troubleshoot circuits using transistors, op-amps, SCR's, triacs, and other linear and discrete components. The other half of the course will cover safety practices; electrical codes, materials, and wiring methods; along with governmental industrial regulations, and employment policies. 2 lecture hours.

### **CIMT 150L Electronic and Electrical Applications for Manufacturing Laboratory** 3 hrs (Sem II)

Corequisite: CIMT 150. This course emphasizes the building, analyzing, and troubleshooting of industrial electronic circuits using diodes, transistors, SCRs, Triacs, ADC, and DAC components; and the installation, wiring, and study of electrical supply hardware such as conduit, boxes, and breakers based on the NEC. 9 laboratory hours.

### **§CIMT 160 Hydraulics and Pneumatics** 1 hr (Sem II)

Prerequisite: A grade of C or better in or concurrent enrollment in MATH 012 or higher. Corequisite: CIMT 160L. Introduction to theory and operation of hydraulic and pneumatic systems. Special emphasis on hydraulic and pneumatic components and flow diagrams for particular applications in industrial control. 1 lecture hour.

### **§CIMT 160L Hydraulics and Pneumatics Laboratory** 2 hrs (Sem II)

Corequisite: CIMT 160. This course emphasizes the building, measuring, and troubleshooting of hydraulic and pneumatic circuits. 5 laboratory hours.

### **CIMT 175 Electro-Mechanical Controls** 2 hrs (Sem II)

Prerequisites: CIMT 100 and CIMT 100L. Corequisite: CIMT 175L. This course covers the design, application, wiring, and troubleshooting of industrial control circuits. Electro-mechanical components are used in ladder logic control circuits to control hydraulic and pneumatic circuits, timing and counting circuits, plus sequencing circuits. Components studied and used for designing circuitry includes relays, limit

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switches, timers, counters, photo sensors, proximity detectors, pressure switches, solenoid valves, etc. 2 lecture hours.

**CIMT 175L Electro-Mechanical Controls Laboratory** **2 hrs (Sem II)**

Corequisite: CIMT 175. This course emphasizes the designing, building, analyzing, and troubleshooting of electrical control circuits for hydraulic and pneumatic applications. 6 laboratory hours.

**CIMT 190 Introduction to PLC Programming and Applications<sup>S</sup>** **3 hrs (Sem I)**

This course explores using an Allen-Bradley Programmable Logic Controller (PLC) to control and troubleshoot machinery used in an industrial application. Course content includes I/O wiring, using RSLinx and RSLogix software, programming instructions, and troubleshooting techniques. 1 lecture hour, 5 laboratory hours.

**§CIMT 200 Programmable Logic Controllers (PLCs)<sup>R/W/S</sup>** **3 hrs (Sem I)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and CIMT 175 and CIMT 175L. Corequisite: CIMT 200L. This course covers the applications, programming, servicing, and troubleshooting of programmable logic controllers (PLCs) with applications in hydraulics, pneumatics, analog, and electrical controls for automated applications. Laboratory experiences include the design and troubleshooting of ladder logic programs. The Allen-Bradley PLC-5/11 and 5/60 processors are applied to control applications using rung programming, rung sequencing, data manipulation, file moves, and subroutines. PLCs are also interfaced to pneumatic pick-and-place robots for automated applications. 3 lecture hours.

**§CIMT 200L Programmable Logic Controllers (PLCs) Laboratory<sup>R/W/S</sup>** **3 hrs (Sem I)**

Corequisite: CIMT 200. This course emphasizes the programming and troubleshooting with an Allen-Bradley PLC using RSLogix and RSLinx. Programs are used to control discrete and analog I/O. 9 laboratory hours.

**CIMT 204 Troubleshooting Automated Systems** **1 hr (Sem I)**

Prerequisites: CIMT 160, CIMT 160L, CIMT 175, and CIMT 175L. Corequisite: CIMT 204L. This course covers systematic approaches used to troubleshoot electrical and pneumatic faults in an automated system. Electrical and pneumatic circuit diagram analysis is emphasized. 1 lecture hour.

**CIMT 204L Troubleshooting Automated Systems Laboratory** **1 hr (Sem I)**

Corequisite: CIMT 204. This course emphasizes the hands-on troubleshooting methods used to diagnose electrical and pneumatic faults. Voltage, current, resistance, and pressure measurements are used to diagnose electrical and pneumatic faults that occur in an automated system. 3 laboratory hours.

**CIMT 206 Motors and Motor Control** **1 hr (Sem I)**

Prerequisite: CIMT 175 and CIMT 175L. Corequisite: CIMT 206L. This course provides theory and application of AC and DC motors, types of single phase motors, three phase power, three phase motors, forward and reversing motor starters, and various motor control circuits. DC drives and Variable frequency drives are included with control applications. Wiring and troubleshooting of three-phase motor control circuits are emphasized in lab. 1 lecture hour.

**CIMT 206L Motors and Motor Control Laboratory** **1 hr (Sem I)**

Corequisite: CIMT 206. This course emphasizes the wiring and troubleshooting of a 3 phase reversible motor starter with timing, counting, and air clutch control capabilities. 3 laboratory hours.

**CIMT 210 Welding Automation<sup>R/W/S</sup>** **3 hrs (Sem II)**

Prerequisite: WELD 103. This course will introduce students to the use of robotics performing gas metal arc welding applications. The student will learn: robot safety, basic robotic systems, peripheral equipment, home positioning, TCP, edit of weld points, linear and circular welds, altering weld parameters, and fault recovery. 2 lecture hours, 3 laboratory hours.

**CIMT 225 Programming Industrial Robots** **2 hrs (Sem I)**

Prerequisites: CIMT 125 and CIMT 125L. Corequisite: CIMT 225L. This course provides the knowledge and skill to program a Motoman six axis articulated manipulator for industrial applications. Programs are developed for assembly applications involving the interfacing and control for clamping, parts feeding, conveyor integration, palletizing, and fault detection. 2 lecture hours.

**CIMT 225L Programming Industrial Robots Laboratory** **2 hrs (Sem I)**

Corequisite: CIMT 22 5. This course emphasizes the programming and I/O interfacing of a 6 axis Motoman Robot for an assembly application. 6 laboratory hours.

**CIMT 250 Robotics Applications and Servicing<sup>S</sup>** **2 hrs (Sem II)**

Prerequisites: CIMT 204 and CIMT 204L. Corequisite: CIMT 250L. Application and servicing is emphasized utilizing industrial grade robots, programmable logic controllers(PLC's), Visual Basic, Panel View Terminals, conveyors, index tables, bowl feeders, a host computer, and other automated equipment. Students gain servicing and troubleshooting experience; plus fabrication of a grip and feeder, and system integration experience on dedicated machinery, assembly robots, and a robotic MIG welding station. 2 lecture hours.

**CIMT 250L Robotics Applications and Servicing Laboratory** **2 hrs (Sem II)**

Corequisite: CIMT 250. This course emphasizes hardware servicing, electrical measurements, and fault detection of an IBM SCARA robot; programming an Allen-Bradley SLC 500 PLC and PanelView Terminal; programming a Mitsubishi PLC and GOT Terminal; operating a Panasonic Welding Robot and analyzing welds; and controlling a product assembly using 4 Motoman robots and a conveyor. 6 laboratory hours.

**CIMT 265 Industrial Networking and PC Control Systems** **1 hr (Sem II)**

Prerequisites: CIMT 200 and CIMT 200L. Corequisite: CIMT 265L. This course covers networking of PLC's and PC systems used with supervisory control and data acquisition (SCADA) applications. The hardware used for networking and control will include Allen-Bradley ControlLogix PLC, Ethernet, Allen-Bradley Data High way (DH+), and DeviceNet. The software used will include Windows 2000, RSLogix 5000, RSLinx, RSNetwork, and PC Anywhere. Microsoft Excel and Access will be incorporated into the networking system to process information. System installation, programming, application, and troubleshooting will be performed. 1 lecture hour.

**CIMT 265L Industrial Networking and PC Control Systems Laboratory** **2 hrs (Sem II)**

Corequisite: CIMT 265. This course emphasizes networking PC systems together and file sharing through Ethernet; and networking Allen-Bradley ControlLogix 5000 PLC systems together using EtherNet, Produce/Consume, DH+, Remote I/O, DeviceNet, Hubs, Bridges, and Gateways. 5 laboratory hours.

**CIMT 290 Instrumentation and Automated Process Control** **3 hrs (Sem II)**

Prerequisites: CIMT 200 and CIMT 200L. Corequisite: CIMT 290L. This course prepares students for working in food, chemical, and pharmaceutical industries. Lecture and lab assignments provide experience with sensors, level control, flow control, pressure control, temperature control, DAC and ADC conversion, digital set-point applications, analog processing, and PID control. The Allen-Bradley ControlLogix processor will be used as the controller with a process control trainer to design, construct, interface, program and troubleshoot control circuits and systems. Additional high-level process control will provide experience in control by HMI (Human Machine Interfacing) software such as RSVIEW32 and VISUAL BASIC on a PC. 3 lecture hours.

**CIMT 290L Instrumentation and Automated Process Control Laboratory** **3 hrs (Sem II)**

Corequisite: CIMT 290. This course emphasizes the controlling of a batch processing application using an Allen-Bradley ControlLogix 5000 PLC and RSView32 software. Control includes discrete I/O; level and valve control, and analog I/O; temperature, flow, and VFD motor control. 9 laboratory hours.

**Computer Repair Technology**

**CMET 240 Computer Maintenance I** **6 hrs (Sem I)**

A course for computer options designed to introduce students to personal computer repair and maintenance. Emphasis is placed on computer installation, upgrading, configuration, and troubleshooting of operating systems, utility programs, application software, peripherals, and various computer hardware devices. Extensive hands-on experience is provided. 3 lecture hours, 9 laboratory hours.

**§CMET 275 Computer Maintenance II<sup>R/W/S</sup>** **6 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and a grade of C or better in CMET 240. An advanced computer repair and maintenance course for computer options, designed to enhance the student's ability to perform upgrading, maintenance, repair, and troubleshooting procedures for personal computer systems. Extensive hands-on experience with computers, peripherals, operating systems, and networks is provided. Professionalism in the workplace and job placement are emphasized. 3 lecture hours, 9 laboratory hours.

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## Computer Networking Technology

*New courses CNET 151, CNET 236, CNET 237, and CNET 238 are found on page 615.*

### **CNET 150 Introduction to Firewalls and VPNs**

**3 hrs (Sem I, II)**

This course is designed to provide students with an introduction to firewalls and other network security components that can work together to create an in-depth defensive perimeter around a Local Area Network (LAN). Students will acquire the fundamentals of network and Internet security and understand the vulnerability most organizations have in their security systems with an emphasis on firewalls, security plans and Virtual Private Networks (VPNs). Discussions will include identification and authentication, network attacks, malicious code and viruses, wireless security, e-mail and web security and disaster recovery. 3 lecture/laboratory hours.

### **CNET 155 Computer Forensics: Cyber Investigation**

**3 hrs (Sem I, II)**

This class is designed for students who are just starting their exposure to and taking their first classes in computer crime and computer forensics. It provides information for students and exposure to computer crime investigations. The course is designed for newcomers to computers and computer crime investigation, so all technical terms are fully introduced and explained. Beginning with the Internet, cyberspace and criminal behavior, the student will learn what they are up against as cyber investigators and why cyber investigation is needed. A history of computer crime, why computers are targets, and hacking will also be discussed. Additional topics will revolve around avenues of prosecution and applying the First and Fourth Amendments to computer crimes. Forensic terminology and computer investigations will be taught in the areas of pre-search activities, on-scene activities and data analysis. Finally, the class will take a look at potential future issues in cyber crime. Throughout the class the students will be given lab components which will utilize computer forensic software to demonstrate the computer investigative process. 3 lecture/laboratory hours.

### **CNET 231 Microsoft Windows Administration**

**4 hrs (Sem I)**

This course provides instruction to implement, administer, and troubleshoot information systems that incorporate the Windows operating system in a simple computing environment that might include one or more servers, a single domain, and a single location with file-sharing and print-sharing capabilities. 4 lecture/laboratory hours.

### **CNET 233 UNIX/Linux Administration**

**4 hrs (Sem II)**

This course is designed to teach students the basics of the UNIX/Linux operating system as well as networking characteristics of UNIX/Linux systems. The students will install, configure and utilize at least one UNIX/Linux operating system and will have the opportunity to work with Linux on personal computers. 4 lecture/laboratory hours.

### **CNET 235 NetPlus Preparatory**

**3 hrs (Sem I, II)**

Prerequisite: COMP 130. This hands-on course assists students in preparing for the CompTIA Network+ and/or an elective credit toward the Microsoft Certified Systems Administrator. This course builds upon concepts learned in COMP 130 teaching the students essential networking technologies and practices building on the OSI model and applying the layers in a functional manner. Concepts covered will include TCP/IP client administration, planning a network topology, configuring the TCP/IP protocol, managing network clients, configuring routers and hubs as well as creating a wireless LAN. Upon completion of this course, the student should be prepared to sit for the CompTIA Network+ certification exam. 3 lecture/laboratory hours.

### **CNET 240 Web Server Management**

**3 hrs (Sem I)**

This course is designed to train students in the installation, configuration and management of Internet Web Servers. Additional topics include default web site configuration, the adding of virtual hosts, security for directories and files, management of log files, and operation of the HTTP protocol. The student will have the opportunity to work with web server on an IBM Mainframe as well as on personal computers. 3 lecture/laboratory hours.

### **CNET 250 Firewalls and Network Security**

**3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in CNET 150. This course is a continuation of CNET 150. In-depth discussions and hands on application will be applied in this course using Symantec Enterprise Firewall 7.0 (or equivalent). Students will learn intrusion detection, logging, port authorization and blocking, as well as secure tunnels and establishing a Virtual Private Network (VPN) and setting up accounts for VPN clients. The class will develop and carry out a security policy to include firewall and proxy settings, security standards, vulnerability assessment and a disaster recovery plan. 3 lecture/laboratory hours.

## Construction Technology

### **CNST 100 Construction Seminar** **1 hrs (Sem I)**

A course designed to expose students to recent trends in the residential construction industry. Information is presented concerning materials, occupations and professional organizations within the industry. Guest speakers provide such information when available. 1 hour lecture.

### **CNST 105 Framing** **2 hrs (Sem I, II)**

Corequisite: CNST 105L. A course devoted to rough framing. It includes building codes, floor framing, wall framing, roof framing, stair framing and general use of the steel square. Information on types and methods of construction will be presented in the classroom. The laboratory section will provide opportunities to practice framing in mock-up situations. Field trips will be scheduled if houses in rough framing construction are available. 2 lecture hours

### **CNST 105L Framing Laboratory** **2 hrs (Sem I, II)**

Corequisite: CNST 105. This course involves hands-on activities that are directly related to CNST 105. The course emphasizes building layout, floor framing and layout, wall framing and layout, roof framing and layout, and shingling applications. 4 laboratory hours.

### **CNST 120 Construction Safety** **2 hrs (Sem I, II)**

A course that focuses on safety practices to be followed during residential construction. Emphasis is placed on the Occupational Safety and Health Administrations Safety and Health Standards for the construction industry. 2 lecture hours.

### **CNST 155 Electrical Wiring** **2 hrs (Sem I, II)**

Corequisite: CNST 155L. Information is given regarding installing and connecting component parts of residential wiring in a manner which is workable and acceptable according to the national electrical code. 2 lecture hours.

### **CNST 155L Electrical Wiring Laboratory** **1 hr (Sem I, II)**

Corequisite: CNST 155. This course involves hands-on activities that are directly related to CNST 155. These activities include the following wiring applications: Wiring of single pole switches, 3-way switches, 4-way switches, split wired receptacles, duplex receptacles, and service panel wiring applications. 2 laboratory hours.

### **CNST 160 Finish Carpentry** **2 hrs (Sem I, II)**

Corequisite: CNST 160L. Students are introduced to products and instructed in their applications in the residential building industry. Instruction includes wall covering, floor covering, ceilings, paint, hardware, millwork, specialty products, doors and windows. 2 lecture hours.

### **CNST 160L Finish Carpentry Laboratory** **2 hrs (Sem I, II)**

Corequisite: CNST 160. This course involves hands-on activities that are directly related to CNST 160. These activities include: Drywall hanging and finishing, interior painting, wallpapering, installation of door and window casing, installation of base board and crown molding, ceramic wall tile installation, and the installation of exterior siding components. 4 laboratory hours.

### **CNST 180 Concrete and Masonry** **2 hrs (Sem I, II)**

Corequisite: CNST 180L. Students plan foundation, footings, walks, and driveways. They are instructed on the types of bonds and materials used to construct walls. Composition of the materials is also covered. 2 lecture hours.

### **CNST 180L Concrete and Masonry Laboratory** **2 hrs (Sem I, II)**

Corequisite: CNST 180. This course involves hands-on activities that are directly related to CNST 180. These activities include: Concrete flat work placement/finishing and forming, laying concrete block in varying pattern bonds, and laying brick in varying pattern bonds. 4 laboratory hours.

### **CNST 205 Residential House Construction I** **8 hrs (Sem I)**

Prerequisite: A grade of C or better in CNST 105, 120, 155, 160 and 180. The first of two courses in house construction. Details of residential house construction will be covered including foundation installation, floor and wall framing, roofing insulation, wiring, door and window installation. Students will be given necessary on-the-job experiences to understand the problems of the use of materials and equipment. Houses will be constructed as a result of these courses. 22 laboratory hours.

### **CNST 210 Mechanical Systems** **2 hrs (Sem I, II)**

Information is given regarding installation of residential fresh water distribution, drainage, waste and ventilation in a manner that is workable and acceptable to the plumbing codes. Insulation, moisture control, ventilation and HVAC topics are covered in relationship to required energy standards. 2 lecture hours.



**CNST 250 Residential House Construction II** **8 hrs (Sem II)**

Prerequisite: A grade of C or better in CNST 205. A continuation of CNST 205, including interior and exterior finish. 22 laboratory hours.

**CNST 255 Construction Material Takeoff** **3 hrs (Sem I)**

Students learn to complete material takeoff for residential buildings. The entire course involves the practice of estimating materials; therefore, a prior knowledge of the kinds and qualities of materials used in residential construction is essential. 3 lecture hours.

**CNST 261 The Indiana Residential Code for One-and Two-Family Dwellings** **3 hrs (Sem I, II)**

A course devoted to the understanding and interpretation of the Indiana Residential Code for one- and two-family dwellings. Instruction will be given in the following areas, but not limited to, administrative requirements, definitions, building planning, foundations, floors, wall construction, wall coverings, roof and ceiling construction, and roof assemblies. 3 lecture hours.

**CNST 265 Cabinetmaking and Millwork** **2 hrs (Sem I, II)**

Corequisite: CNST 265L. Instruction is given on those machines most likely found in a mill workshop and emphasis is placed on development of skills to the highest degree in tool operation. Information is given on the parts that constitute various types of casework. Laboratory time is available to develop skills in tool set-up and operation as well as construction and assembly of cabinet parts. 2 lecture hours.

**CNST 265L Cabinetmaking and Millwork Laboratory** **2 hrs (Sem I, II)**

Corequisite: CNST 265. This course involves hands-on activities that are directly related to CNST 265. These activities include: Learning wood working machines and their operation; machine safety; and learning various wood joinery. Students will be required to make a woodworking project as a requirement. 4 laboratory hours.

**§CNST 270 Construction Labor Rating and Pricing<sup>R/W/S</sup>** **2 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and CNST 255. Corequisite: CNST 270L. Material takeoff and labor rating data completed in CNST 255 will be used to determine the cost of a building. Making material price comparisons and a complete estimate of a house are required projects. 2 lecture hours.

**§CNST 270L Construction Labor Rating and Pricing Laboratory<sup>R/W/S</sup>** **1 hr (Sem II)**

Corequisite: CNST 270. This course involves hands-on activities that are directly related to CNST 270. These activities include determining material and labor cost for the following areas: Building permits and fees, site development/preparation, building layout, footings, foundations, floor framing, wall framing, roof framing, interior finishing, and exterior finishes. 2 laboratory hours.

**CNST 280 Construction Project Supervision** **3 hrs (Offered on Demand)**

This course studies the overall duties and responsibilities of supervisors on a construction site during project development and construction. Special emphasis will be placed on time management, communication skills, conflict management, scheduling, as well as safety and supervisor's role. 3 lecture hours.

**CNST 282 Construction Project Management** **3 hrs (Offered on Demand)**

This course will study construction business policy and the management aspects related to such policies. Topics covered will include leadership, business development, plans, insurance, bonding, and human resources management considerations relevant to the construction industry as well as detail study in public relations and ethics. Additional study will be required in financial strategies related to project bidding, scheduling, and outcome measurement of project and crew productivity. 3 lecture hours.

**♠CNST 421 Facilities Management** **3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. This course will study the electronics, hydraulic, pneumatic and the HVAC operations of small and large facilities and their technology. Included will be a "smart building" system and building diagnostics as well as preventive maintenance, "right to know" laws, codes and regulatory laws affecting the operation of facilities. 3 lecture hours.

**Computer Programming Technology**

*New course COMP 230 can be found on page 615.*

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♠ Any course identified with a ♠ requires junior level standing or consent of the instructor.

**COMP 101 Using the Windows Environment** **1 hr (Sem I, II)**

This course introduces the basic concepts of Windows and Windows-based applications. Students will acquire the necessary concepts for accomplishing the most commonly used tasks, such as creating folders, copying, deleting, and moving files from one folder to another or from a folder to an auxiliary storage medium. Word Processing and Spreadsheet programs will be introduced. 1 lecture/laboratory hour.

**COMP 107 Web Page Design** **3 hrs (Sem I, II)**

This course is designed for students learning the fundamentals of constructing well-designed web pages for the World Wide Web. The proper use of color, spacing, graphics, tables, frames, and forms along with the importance of correct linking and use of copyrighted material will be presented. Course will explore the publishing features of various software available. The careful design and planning steps will lead to a thoughtful, readable, and worthwhile individual project. 3 lecture/laboratory hours.

**COMP 108 Computer Seminar** **1 hr (Sem I, II)**

This course is designed to fulfill individual project training, industry training, work experience and allow the exploration of various application software and training. It is envisioned as a flexible training course to satisfy needs of students, and course for development of new topics or methods of training as needs demand. *This course may be repeated for credit.* 1 lecture/laboratory hour.

**§COMP 110 Introduction to Computer Concepts** **3 hrs (Sem I, II)**

This course is designed as a one-semester study for students from all areas of concentration. Students will be exposed to the historic, current, and future roles of information systems as well as the importance of computers in all aspects of our modern society. General hardware and software features of modern systems will be discussed. Current word processing, spreadsheet and presentation software will be covered. *This course is a transferIN course.* 3 lecture/laboratory hours.

**COMP 111 Using the Internet** **1 hr (Sem I, II)**

Prerequisite: Previous microcomputer coursework recommended. The course is to familiarize and train students in the use of the Internet. It will involve correct procedures, search methods, understanding of terminology, and provide the ability to download files. It will also cover the need to handle and utilize information resources in a secure manner and protection against computer virus. 1 lecture/laboratory hour.

**COMP 113 Advanced Web Page Design** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in COMP 107. This course will introduce advanced topics not covered in COMP 107. Students will be introduced to Dynamic Hypertext Markup Language (DHTML). The proper use of Cascading Style Sheets (CSS) and javascript will be emphasized. Students will be required to produce a Web site containing style sheets, javascript, and DHTML. 3 lecture/laboratory hours.

**COMP 115 Game Design Theory** **3 hrs (Sem I)**

This course introduces students to the ideas and theories behind game design. Course content begins with an overview of the video game industry's history, the content that makes games successful, and then transitions into a game's creation lifecycle. 2 lecture/laboratory hours.

**COMP 130 Communications and Networking** **3 hrs (Sem I, II)**

This course introduces students to concepts of local and wide area networks, home networking, networking standards using the OSI Model, network protocols, transmission media and network architecture/topologies. Security and data integrity will be introduced and emphasized throughout this course with references to personal computers, midrange, iSeries, and mainframe computers. 3 lecture/laboratory hours.

**COMP 146 Personal Computer Configuration and Management** **3 hrs (Sem 1, II)**

An introduction into the components and internal operations of a personal computer system with an emphasis on hands-on activities. Presentations will discuss and detail computer hardware, related operating systems software, performance and compatibility features. Emphasis will be placed on software and hardware error diagnosis and troubleshooting, installation of software, and initial setup of equipment. Lectures will cover topics on requirements, features, selection, and management of personal computers. A lab fee will be assessed to students for purchase of kit. Lectures in the last segment of the class will discuss prioritization and management of PC and PC related issues in a work environment from a technical support standpoint. Discussions and lectures will center around leadership roles, prioritizing, delegating and following up on computer related issues. 3 lecture/laboratory hours.

**COMP 150 Game and Artificial Intelligence Programming I** **3 hrs (Sem I)**

This course introduces students to the programming aspect of game creation. Course content covers current industry programming tools, operating system/platform considerations, and artificial intelligence programming. 3 lecture/laboratory hours.

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**COMP 175 Principles of Computer Programming** **3 hrs (Sem I, II)**

This course is a language-independent introductory programming course that orients students to programming concepts and logic without assuming any previous programming experience. Material covered will allow students to become comfortable with fundamental concepts and logical thought processes used in programming without the emphasis on a specific programming language. To enhance the acquisition of flowcharting and pseudocode concepts, the Visual Basic and Alice programming languages will be introduced. 3 lecture/laboratory hours.

**COMP 176 Introduction to Visual Programming** **3 hrs (Sem I, II)**

Fundamental concepts of programming are provided through explanations and effects of commands, and hands-on utilization of lab equipment to produce correct output. Visual Basic is the only language being examined and utilized. Demonstrations of business problems and solution techniques will be reviewed. 3 lecture/laboratory hours.

**COMP 180 COBOL Programming** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in COMP 175. The course is intended for students who wish to establish employable skills in this major language. Students will learn to design programs from problem specifications and to apply structured methods to produce accurate business reports. The knowledge of commands inherent in this language will allow skill development in maintaining existing programs and preparing proper documentation. Preparation of programs will require utilization of University computer lab equipment. 3 lecture/laboratory hours.

**COMP 190 Game Modeling and Animation I** **3 hrs (Sem I)**

This course introduces students to game modeling and animation aspects of game creation. Students explore current tools used by industry leaders to create models, textures, animations and game environments. 3 lecture/laboratory hours.

**COMP 193 Oracle Fundamentals/SQL\*Plus** **3 hrs (Sem I, II)**

This course will include client/server databases, Oracle 8i environment, overview of relational databases, create/modify/update tables, SQL\*Plus commands, run SQL script, add/view data, grant table privileges, table joins, create alias, and queries. 3 lecture/laboratory hours.

**COMP 201 The Computer in Business** **3 hrs (Sem I, II)**

This course is designed to develop computer competency in a variety of computer related skills such as spreadsheets, databases, Internet software and Windows, as well as a basic working knowledge of computer and information concepts appropriate for most organizations. This course is designed specifically for Business Administration transfer majors. 3 lecture/laboratory hours.

**COMP 203 Visual C++** **3 hrs (Sem I, II)**

Prerequisite: COMP 176. This course introduces the fundamental concepts of object-oriented programming, programming methodology, and advanced data structures and algorithms. Microcomputer experience will be beneficial as the various features of this language are explored. 3 lecture/laboratory hours.

**COMP 215 Database Management/SQL** **3 hrs (Sem I, II)**

Students will learn how to create and maintain databases using database manager software. Topics will include creating tables, and loading tables, as well as creating objects from tables such as queries, forms, and reports. Database manipulation and maintenance will also be stressed. The database environment will include a server with PC access. User-written procedures and access to other languages will be introduced. 3 lecture/laboratory hours.

**COMP 250 Game and Artificial Intelligence Programming II** **3 hrs (Sem II)**

Prerequisites: COMP 115, COMP 150, COMP 190. This course is a continuation of Game and Artificial Intelligence Programming I. Students continue learning about game programming, choosing a game type, and adding artificial intelligence programming to previously created game models. 3 lecture/laboratory hours.

**COMP 252 Introduction to Java Programming** **3 hrs (Sem I, II)**

Prerequisite: COMP 176. This course introduces students to object-oriented programming concepts along with the Java syntax to implement them. At the end of this course, students should be able to write small applications and to program with Java on their own. 3 lecture/laboratory hours.

**COMP 255 Introduction to Game Programming** **3 hrs (Sem I, II)**

Prerequisite: COMP 176. This course introduces the student to basic concepts of game programming for PC's. Topics such as game genre, design and development, game engines, sprites, animation, and object collisions will be explored. 3 lecture/laboratory hours.

**COMP 273 Advanced Visual C++** **3 hrs (Sem I, II)**

Prerequisite: COMP 203. This course will focus in depth on Object Oriented Development. Students will learn advanced concepts of object-oriented programming, programming methodology, and advanced data structures and algorithms. 3 lecture/laboratory hours.

**COMP 276 Advanced Visual Programming** **3 hrs (Sem I, II)**

Prerequisite: COMP 176. Advanced concepts of programming are provided through explanations and effects of commands, and hands-on utilization of lab equipment to produce correct output. Visual Basic is the only language being examined and utilized. Topics include Arrays, Accessing Database Files, Saving Data in Files, Creating Object-Oriented Programs, Advanced Validation Techniques, Multiple Document Interface, and Custom Controls. 3 lecture/laboratory hours.

**COMP 285 Content Management Solutions and Portals** **3 hrs (Sem II)**

This course is designed to introduce students to the concepts of Content Management and Portal Technology. Topics include the fundamentals of content management systems, intranets, extranets and information portals. Discussions will include analysis of existing popular sites and suggested improvements. A survey of modern content management and portal tools will be done, and the student will gain hands-on experience developing sites in one or more of them. Best practices for usability and search engine optimization will also be covered in the course. Students will gain practical experience in current related software. 3 lecture/laboratory hours.

**COMP 290 Game Modeling and Animation II** **3 hrs (Sem II)**

Prerequisite: COMP 115, COMP 150, COMP 190. This course is a continuation of Game Modeling and Animation I. Students continue learning about tools used for model and animation creation and begin using 3ds Max 8 and Adobe Photoshop CS3. 3 lecture/laboratory hours.

**COMP 293 Oracle Application Development** **3 hrs (Sem I, II)**

This course will include PL/SQL, triggers, forms, reports, backup, and recovery strategies, tuning and troubleshooting, database architecture and administration. 3 lecture/laboratory hours.

**§COMP 295 Systems Development** <sup>R/W/S</sup> **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and a grade of C or better in COMP 176 and 215. The capstone course reviews and applies system development theory and methodologies, and covers the components of the traditional life cycle of a system. Students produce a design and workable project individually to gain an appreciation of the documentation and planning of an information system. Other activities include the review and analysis of existing designs and discussions on the importance of working as team members. 3 lecture/laboratory hours.

**COMP 310 Managing Information Technology** **3 hrs (Sem I)**

Prerequisite: COMP 295. This course is designed as an introduction to the financial, technical, and strategic information systems planning process. Emphasis is on the relationship of the information systems planning process to overall business goals, policies, plans, management style, and industry conditions. The selection of large systems projects, assessment of a currently installed system, determining approaches to staffing, software, hardware, processing, and financing an information system are studied. 3 lecture hours.

**COMP 320 Operating Systems** **3 hrs (Sem II)**

Prerequisite: COMP 295. This course introduces students to Operating Systems using theory and practice to cover the fundamentals such as definitions, operations, function, evaluating, and comparing the different operating systems. Topics include memory management, processors, devices, files, networks, system, security and ethics. The course will also focus on applying the theory to specific operating systems. 3 lecture hours.

**COMP 330 Data Structures** **3 hrs (Sem II)**

Prerequisite: COMP 295. This course examines the systematic study of data structures encountered in computing problems, methods of representing structured data, and techniques for operating on data structures. The course covers arrays, lists, stacks, queues, binary trees, and search and sort algorithms. 3 lecture hours.

**COMP 410 Data Security and Disaster Recovery** **3 hrs (Sem I)**

Prerequisite: COMP 295. This course examines developing a company's data survival strategy, solutions for every company-PC to mainframe to the Internet, and the best practices for avoiding disasters and safeguarding a business. 3 lecture hours.

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**COMP 420 Special Topics/Current Topics** **3 hrs (Sem II)**

Prerequisite: COMP 295. This course examines the current needs of businesses in the Information Technology field. Some of the latest topics may include E-Commerce, Storage Service Providers, Wireless Networks, Business Support and Business Intelligence, and Data Warehouses. 3 lecture hours.

**COMP 430 Advanced Systems Development** **3 hrs (Sem II)**

Prerequisite: COMP 295. This course presents an overview of systems analysis and development methodology, and describes activities, tools, and techniques for analyzing business requirements for an improved system. The course will also concentrate on the phases of systems development that span life cycles, such as project management, information gathering, and cost-benefit analysis. 3 lecture hours.

**Corrections**

**CORR 120 Introduction to Corrections** **3 hrs (Sem I)**

This course is designed to examine the development of the correctional process and current topics to include philosophies of punishment, non-institutional methods of correctional practices, community-based corrections programs, parole and probation, and experimental procedures. Administration and institutional procedures will be explored. The course will also give an overview of the criminal justice system to include the police and courts. *Offered only at the Florida Education Program and through Continuing Education at selected sites.* 3 lecture hours.

**CORR 125 Correctional Institutions** **3 hrs (Sem I)**

This is an in-depth inquiry into the function, structure and operations of American adult and juvenile correctional institutions. The correctional institution in the United States will be examined as it exists today in terms of its development, objectives and standards. Attention is focused on the history of imprisonment as social control, retribution versus rehabilitation as a philosophy and modern expectations in a progressive system. The examination of correctional institutions will include but not be limited to jails, detention homes, reformatories, furlough-detention facilities, and open and closed institutions. *Offered only at the Florida Education Program and through Continuing Education at selected sites.* 3 lecture hours.

**CORR 155 Legal Trends in Corrections** **3 hrs (Sem II)**

This course is designed to acquaint corrections students with the American Correction Association's Standards, proper procedures for giving Miranda Warnings, search and seizure, title 1983 requirements, civil litigations and a broad view of the current trends in correctional case law and happenings in the field of corrections. *Offered only at the Florida Education Program and through Continuing Education at selected sites.* 3 lecture hours.

**CORR 220 Treatment in Corrections** **3 hrs (Sem I)**

This course will examine treatment techniques and processes in adult and juvenile corrections. Techniques of prevention and diversion will be discussed, as well as skill development in interviewing, group processes and crisis intervention techniques, and the appraisal of correctional treatment upon post-correctional behavior. *Offered only at the Florida Education Program and through Continuing Education at selected sites.* 3 lecture hours.

**CORR 230 Report Writing for Criminal Justice Professionals<sup>W/S</sup>** **3 hrs (Sem II)**

The focus of this course is enhancement of the written and oral communication skills of the student, relative to the criminal justice system. Basic report writing, interviewing and interrogation skills, and communication with the public and media will be addressed. Reports and forms commonly used in the criminal justice system will be utilized. *Offered only at the Florida Education Program and through Continuing Education at selected sites.* 3 lecture hours.

**CORR 240 Institutional Security** **3 hrs (Sem I)**

This course emphasizes organization, supervision, and administration of control services. Students will be introduced to institutional security through discussions of problems characteristic to institutions such as rioting, food strikes, crime scene preservation, weapons and drug identification, and the use of force. Different types of control will be examined (non-lethal weapons, confinement, etc.) and discussed in detail. *Offered only at the Florida Education Program and through Continuing Education at selected sites.* 3 lecture hours.

**§CORR 260 Correctional Administration<sup>R</sup>** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. The course will cover the organization, supervision and administration of control services, responsibilities and techniques in correctional institutions. Emphasis will be placed upon organizational structure, record keeping, planning, decision-making and directing. *Offered only at the Florida Education Program and through Continuing Education at selected sites.* 3 lecture hours.

**CORR 265 Contemporary Community Corrections** **3 hrs (Sem II)**

This course is designed to examine community-based correctional options that punish, monitor, supervise, treat, employ and reintegrate offenders in non-incarcerative community settings. The theoretical and his-

torical development of various options will be a focus of the course and will include pre-adjudication programs; probation and parole conditions; home confinement, work release; day reporting centers; halfway houses; boot camps; restitution programs; and victim-offender reconciliation programs. *Offered only at the Florida Education Program and through Continuing Education at selected sites.* 3 lecture hours.

### **CORR 270 Internship in Corrections**

**4 hrs (Sem I, II, Summer)**

This elective course allows students practical experiences in agencies involved in courts, probation and parole, juvenile detention facilities, community-based facilities and other correctional institutions in accordance with interests of the student and recommendations of the faculty. Students must have completed 30 hours of course work and maintain a minimum of 2.00 GPA. *Offered only at the Florida Education Program and through Continuing Education at selected sites.* 160 practicum hours.

## **Cosmetology**

### **§COSM 100 Cosmetology I**

**7 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. This course offers an introduction to cosmetology with emphasis on basic practical skills and theories including roller control, quick styling, shampooing, hair coloring, permanent waving, facials, manicuring, business and personal ethics, and bacteriology and sanitation. Successful completion of the course requires at least 375 Cosmetology studio hours. 3 lecture hours, 26 studio hours.

### **COSM 150 Cosmetology II**

**7 hrs (Sem I, II, Summer)**

Prerequisite: COSM 100. Development of practical skills introduced in COSM 100 will receive the greatest emphasis in this course. Clinical application and theory in the science of cosmetology are introduced. Successful completion of the course requires at least 375 Cosmetology studio hours. 3 lecture hours, 26 studio hours.

### **COSM 200 Cosmetology III**

**7 hrs (Sem I, II, Summer)**

Prerequisite: COSM 150. The emphasis will be toward the development of advanced skills in styling, hair coloring, permanent waving, facials and manicuring. Students will also study anatomy and physiology as it applies to cosmetology. Successful completion of the course requires at least 375 Cosmetology studio hours. 3 lecture hours, 26 studio hours.

### **COSM 250 Cosmetology IV**

**9 hrs (Sem I, II, Summer)**

Prerequisite: COSM 200. All previously developed skills are applied with emphasis on developing individual techniques. Professionalism, salon management, psychology in relation to cosmetology, and preparation for state board examination are stressed. Successful completion of the course requires at least 375 Cosmetology studio hours. 5 lecture hours, 26 studio hours.

### **COSM 275 Comprehensive Cosmetology**

**3 hrs (Sem I, II, Summer)**

This course is designed exclusively for students who have successfully completed 1,500 hours of beauty school instruction at another institution. Students will be evaluated to determine if any area exists in which students need further instruction. The course is organized so students can advance at their own pace. Comprehensive Cosmetology is an attempt to assure that transfer students meet the standards set for our regular cosmetology students.

## **Computer Networking Technology**

### **CPNS 101 LAN Basics and OSI Model**

**3 hrs (Sem I)**

This course is designed to prepare students to apply and understand the basics of networking hardware. The course covers the OSI model and industry standards; network topologies; IP addressing, including subnet masks; and basic network design. This is the first of a four-part series to prepare students for the CISCO Certified Networking Associate examination. 1 lecture hour, 6 laboratory hours.

### **CPNS 102 WAN Basics and Routers**

**3 hrs (Sem I)**

Prerequisite: A grade of C or better in or concurrent enrollment in CPNS 101. This course is designed to prepare students to apply and understand the basics of networking hardware. The course covers beginning router configurations, routed and routing protocols, and introduction to LAN switching. This is the second of a four-part series to prepare students for CISCO Certified Networking Associate examination. 1 lecture hour, 6 laboratory hours.

### **CPNS 103 VLANs and Network Management**

**3 hrs (Sem II)**

Prerequisite: A grade of C or better in CPNS 102. This course is designed to prepare students to apply and understand the advanced principles and applications of networking hardware. The course covers advanced router configurations, LAN switching, network management, and an advanced network design. This is the

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third of a four-part series to prepare students for the CISCO Certified Networking Associate examination. 1 lecture hour, 6 laboratory hours.

**CPNS 104 WAN Design and Protocols** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in or concurrent enrollment in CPNS 103. This course is designed to prepare students to apply and understand the advanced principles, applications, and implementation of networking hardware. The course covers advanced network design projects and advanced network management projects. This is the fourth of a four-part series to prepare students for the CISCO Certified Networking Associate examination. 1 lecture hour, 6 laboratory hours.

**CPNS 150 Computer Telecommunications** **2 hrs (Sem II)**

This is a telecommunication technology, basic network, and cabling course. This course will include the following subjects: Telecommunications and network terminology, cabling systems, and basic IP networking. Students will manufacture cables, test and install cable systems, and examine basic network technology. 1 lecture hour, 3 laboratory hours.

**CPNS 170 Computer Networking I** **4 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate test scores. This course is designed to introduce students to Microsoft networking. Students will install and maintain a computer network. Emphasis will be placed on Microsoft certification testing. Extensive individual study time will be required to pass the Microsoft certification tests. 2 lecture hours, 6 laboratory hours.

**CPNS 221 Network Security for WANs** **4 hrs (Sem II)**

Prerequisite: A grade of C or better in CPNS 104. This course will prepare students to select appropriate security measures based on assessments of security needs and vulnerabilities as well as known threats. Use of the Cisco PIX Firewall, basic and advanced configuration as well as Intrusion detection will be studied. This course prepares students to take the Securing Networks with Cisco Routers and Switches (SNRS) and the Securing Networks with PIX and ASA (SNPA). 2 lectures, 6 laboratory hours.

**CPNS 222 Wireless Networking for WANs** **3 hrs (Sem I)**

Prerequisite: A grade of C or better in CPNS 104. This course will prepare students to design logical wireless LAN architectures in both in-building and building-to-building LANs. Students will perform hardware setup and software configuration of Cisco Aironet wireless products including security using WEP, Cisco LEAP, and 802.1x protocols. This course will prepare students to take the Cisco Wireless LAN Support Specialist (WLANFE) certificate. 2 lecture hours, 4 laboratory hours.

**CPNS 240 Computer Networking II** **4 hrs (Sem I)**

Prerequisite: A grade of C or better in CPNS 170. Corequisite: CMET 240. This course is designed to introduce students to Microsoft networking. Students will install and maintain a computer network. Emphasis will be placed on Microsoft certification testing. Extensive individual study time will be required to pass the Microsoft certification tests. 2 lecture hours, 6 laboratory hours.

**CPNS 248 Network Security for LANs** **2 hrs (Sem II)**

Prerequisite: A grade of C or better in CPNS 170. This course provides students with the knowledge and skills to begin supporting network security within an organization. Students who complete this course will be able to identify security threats and vulnerabilities, and help respond to and recover from security incidents. This course prepares students to take the CompTIA Security + certification exam. 1 lecture hour, 3 laboratory hours.

**CPNS 280 Computer Networking III** **4 hrs (Sem II)**

Prerequisite: A grade of C or better in CPNS 240. Corequisite: CMET 275. This course is designed to introduce students to Microsoft networking. Students will install and maintain a computer network. Emphasis will be placed on Microsoft certification testing. Extensive individual study time will be required to pass the Microsoft certification tests. 2 lecture hours, 6 laboratory hours.

**Computer Science**

**CSCI 126 Introduction to Computer Tools for Scientists and Engineers** **3 hrs (Sem I, II)**

Prerequisite: Prior completion of or concurrent enrollment in MATH 102 and MATH 104 or higher math with a C or better grade or CPTS score of CLM 55. An introduction to the use of EXCEL and MATLAB to display data, produce graphs, solve problems, and determine relationships between experimental data. Matrix calculations will be used to solve systems of equations. Physics and Engineering problems will be modeled using the appropriate software tools. Course materials will be accessed using the Internet. 2 lecture hours, 3 laboratory hours.

**CSCI 159 C Programming for Scientists and Engineers** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in MATH 102 or higher math. An introductory course in computer programming using the C language under the Linux operating system. Emphasis will be given to the structured approach to programming to solve scientific problems. 2 lecture hours, 2 laboratory hours.

‡ **CSCI 410 Microcomputers in Education** **3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Introduction and practical hands-on exercises to provide school and other instructional personnel with an understanding of how microcomputers are used in education. The course is intended for educators who wish to understand and use computers in the learning and training processes. 3 lecture, 2 laboratory hours.

**Culinary Arts**

**CULN 100 Introduction to Food Preparation** **6 hrs (Sem I)**

This class will be designed for students required to take 2 or more developmental classes in reading, writing, or math before they can be enrolled in college level general education classes. This class will include lecture and lab with instruction on identification of small wares, pots, pans, kitchen equipment, stations, basic knife safety and skills, reading and understanding recipes and terms, basic measurements, cleaning essentials for small wares, floors, equipment, setup of dish washing machine and 3 compartment sink. 2 lecture hours, 8 studio/lab hours.

**CULN 101 Introduction to Sanitation** **3 hrs (Sem II)**

This class will include basic sanitation elements, appropriate food handling and holding techniques, proper time and temperatures for serving food, and hand and food washing procedures. 3 lecture hours.

**CULN 110 Quantity Food Production** **6 hrs (Sem I)**

This course is an introduction to basic food preparation; use, care and handling of tools and equipment; and the perishable commodity. Preparation and presentation of soups, sauces, vegetables, entrees and salads is included. Proper cooking techniques, basic menu planning and convenience of food products is covered. 3 lecture hours, 8 laboratory hours.

**CULN 150 Advanced Quantity Food Production** **6 hrs (Sem II)**

Prerequisite: CULN 110. This course is a continuation of CULN 110. Included in the course will be preparation and presentation of soups, sauces, vegetables, entrees and salads. There will be a strong emphasis on nutritional cooking techniques and transformation of traditional recipes into light, healthy dishes. Students will also focus on portion control and plate design presentations. 3 lecture hours, 2 class hours, 6 laboratory hours.

**CULN 210 Pastry and Bake Shop Production** **6 hrs (Sem I)**

This is an in-depth study of the production and presentation of bakery, pastry, and specialty bakeshop items. Included are yeast products, puff pastry, sweet rolls and fillings, cakes and cake decorating, candies, and specialty items for special occasions and buffets. Students will also be exposed to tools and equipment used in the bakeshop and management of the bakery. 2 lecture hours, 10 laboratory hours.

**CULN 215 Supervision of the Quantity Food Facility<sup>W/S</sup>** **3 hrs (Sem I)**

Often the chef or executive chef serves as the manager and supervisor of the quantity food facility. This course examines managerial techniques including motivational techniques, delegation and supervision of work assignments, public relations, and management theory application. 3 lecture hours.

**CULN 230 Nutrition for the Food Service Professional** **3 hrs (Sem I)**

This course will focus on the nutritional elements that a chef must consider when developing a menu for a restaurant, banquets, catered events, etc. 3 lecture hours.

**CULN 250 Off-Site Catering** **3 hrs (Sem II)**

Students will be involved in catering events off-campus for various venues. 6 studio hours.

**CULN 260 Haute Cuisine and Special Food Items** **7 hrs (Sem II)**

Prerequisites: CULN 110 and 150. This is an intensive laboratory course stressing the refinement of quantity food skills, decorating skills, and specialty work. In addition, the preparation and presentation of classical foods and cuisine; banquet, buffet and special occasions; hors d'oeuvres and canapes; and vegetable and ice carving will be stressed. This course will culminate with the serving of a formal banquet. 3 lecture hours, 10 laboratory hours.

**CULN 270 Culinary Practicum** **2 hrs (Summer)**

Prerequisite: Completion of the first year of the program. This practicum consists of a minimum of 300 hours employment in an approved position in the hotel and restaurant industry in a food preparation capaci-

‡ Any course identified with a ‡ requires junior level standing or consent of the instructor.



ty. While faculty will visit during the work experience, students will be under the supervision of the employer who will evaluate, grade, and document the students' progress. Minimum of 300 practicum hours.

**CULN 280 Advanced Techniques I**

**9 hrs (Sem I)**

This class will include instruction in ice sculpting, hors d'oeuvres, canapés & appetizers, charcuterie, buffet design, and display centerpieces. 18 studio/lab hours.

**CULN 281 Advanced Techniques II**

**9 hrs (Sem II)**

This class will include instruction in advanced cake decorating, candies and confections, plated dessert presentation, international desserts, and frozen & light desserts. 18 studio/lab hours.

**Computer Web Technology**

**CWEB 150 Web Development**

**3 hrs (Offered on Demand)**

Students seeking a degree in Webmaster or needing an understanding of the process for Web site development may take this course. This course introduces the principles of Web site development. It enables students to acquire a concrete understanding of how to create a Web site. Emphasis is placed on the fundamentals of set up, design and maintenance through concrete examples. While keeping pace with the ever-changing computer technology and HTML, the de facto language of the World Wide Web, this course will present the most recent theories of designing a Web site and the application of various technologies used to create and manage a Web site. 3 lecture/laboratory hours.

**CWEB 151 Introduction to Web Graphics and Tools**

**3 hrs (Sem I, II)**

This is an in-depth course on Adobe's powerful web graphics and publishing tools. Students will learn from best practices methodology to common tasks such as: migrating sites to Dreamweaver, optimizing images, and creating dynamic content. Students will plan and create a project using Site Definition; including templates, assets, and libraries; customizing and extending Dreamweaver. Fireworks will be used to create and optimize graphics editing; working with bitmaps and vectors; creating navigation objects; batch-processing images; optimizing images for faster page loading. Other aspects of Web Pages covered include using tables, layers, style sheets; using image place holders; building navigation interface; and adding interactive behaviors. 4 lecture/laboratory hours.

**CWEB 153 Multimedia on the Web**

**3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in COMP 113. Designed for Webmaster majors, this course can be taken by anyone who is interested in acquiring hands-on skills using Macromedia Flash to build interactive web applications. The course introduces the fundamentals of multimedia application to Web documents. Emphasis will be placed on concrete examples of how to Flash to produce special effects. Hardware and software requirement and configuration for a multimedia application will be presented. 3 lecture/laboratory hours.

**§CWEB 211 Project Management<sup>R/W/S</sup>**

**3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009 and MATH 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. Being a designer of a product that sells goods and services, a Webmaster needs to understand the basic principles of management. This course introduces the concepts of management and project support as they relate to Web sites. Basic management and inter-relational skills will be covered. Emphasis on understanding the required resources (hardware, software, and people) will be fully examined. 3 lecture/laboratory hours.

**CWEB 213 Web-Based Electronic Commerce**

**3 hrs (Sem I, II)**

No prior experience in the use of computers or Web page design is required. Students needing an understanding of Web-based electronic commerce may take this course. One of the major tasks for a Webmaster is to design a product that advertises and sells goods and services on the World Wide Web. The e-commerce as it is now commonly called is the force behind the Webmaster degree. It is imperative that a prospective Webmaster fully understands the principles of e-commerce and its impact on the overall economy. Therefore this course introduces students to the fundamentals of Web-based e-commerce. 3 lecture/laboratory hours.

**CWEB 215 Dynamic Web Applications with PHP and MySQL**

**3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in COMP 107 and COMP 113. This course introduces the basic syntax of PHP and MySQL and concepts of dynamic Web applications. The focus of this course is the use the PHP server-side scripting language and the MySQL database engine to underlie dynamic Web sites. Students will acquire skills to build online shopping sites, create customized information pages for users, and manage a large volume of content through a database. 3 lecture/lab hours.

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**CWEB 220 Web Application Development with ASP.NET** **3 hrs (Sem I, II)**  
Prerequisites: C OMP 113 and C OMP 176. This course introduces students to creating dynamic, data-driven Web applications with ASP.NET. Students will learn creating dynamic content and integrating web applications with popular database management systems including Microsoft Access, SQL Server, and Oracle. Topics include validating forms, accessing database data with ADO.NET, securing web sites, using Master pages, and creating navigation systems. 3 lecture/laboratory hours.

**CWEB 253 Advanced Web Development with Flash** **3 hrs (Sem I, II)**  
Prerequisite: A grade of C or better in COMP 107 and DESN 215. This course will concentrate on the programming aspects of Flash as it applies to techniques and implementation of dynamic, animated Web applications. Lectures will cover topics on object-oriented programming concepts, working with Array, digital color and Flash's color objects, manipulating data in Flash, dynamic data exchange, XML and Flash, and user input and interaction. Students will work on hands-on projects including creating preloader, creating user input form, building Flash components, and dynamically loading sound, picture, and text, managing information flow. 3 lecture/lab hours.

**CWEB 254 Web Security and Ethical Issues** **3 hrs (Sem I, II)**  
Prerequisite: A grade of C or better in COMP 107. The widespread use of electronic commerce has introduced problems resulting from difficulties of implementing programmatic issues and concerns that relate to the security of data and individual privacy. The course will present available tools and techniques that are being implemented to protect data on the Web and will raise related ethical issues. 3 lecture/laboratory hours.

**CWEB 296 Web Development and Analysis<sup>R/W/S</sup>** **3 hrs (Sem I, II)**  
Prerequisite: COMP 113, COMP 176, COMP 215, CWEB 151, and DESN 215. This course will include introduction to a web environment, creating a successful web presence, principles of web site development, planning a web site, web development team, web authoring tools, web site navigation, creating a page template using a table, working with forms, web typography, web testing, publishing and maintaining a web site, marketing a web site, and advanced web technologies. 3 lecture/lab hours.

## Dance

**DANC 104 Ballet I** **1 hr (Sem I)**  
Introduction to basic principles and techniques in classical ballet with the use of French terminology. Beginning dance steps at the barre and center floor with emphasis on correct body alignment. *May be taught concurrently with DANC 105 and in alternate years.* 2 class activity hours.

**DANC 105 Ballet II** **1 hr (Sem I)**  
Prerequisite: DANC 104. Continued study of classical ballet principles and techniques with barre exercises and center floor work with progressive difficulty. *May be taught concurrently with DANC 104 and in alternate years.* 2 class activity hours.

**DANC 106 Tap I** **1 hr (Sem I)**  
Designed to teach the basic tap steps and combinations along with their rhythmic analysis and style as used in composition. Intended for the student with no experience in tap dancing. *May be taught with DANC 107 and in alternate years.* 2 class activity hours.

**DANC 107 Tap II** **1 hr (Sem I)**  
Advanced tap dance techniques for the student with previous tap dance training. *May be taught concurrently with DANC 106 and in alternate years.* 2 class activity hours.

**DANC 108 Jazz I** **1 hr (Sem I)**  
Instruction in beginning level jazz dance techniques, performance combinations, and basic vocabulary. *May be taught concurrently with DANC 109 and in alternate years.* 2 class activity hours.

**DANC 109 Jazz II** **1 hr (Sem I)**  
Prerequisite: DANC 108. Continuation of jazz dance techniques with increasing vocabulary and work in stylistic movement phases. *May be taught concurrently with DANC 108 and in alternate years.* 2 class activity hours.

**DANC 111 Modern Dance I** **1 hr (Sem I)**  
Instruction in beginning level modern dance technique includes basic vocabulary, combinations, and creative movement exploration. *May be taught concurrently with DANC 112 and in alternate years.* 2 class activity hours.

**DANC 112 Modern Dance II** **1 hr (Sem II)**  
Prerequisite: DANC 111. Continued study of modern dance techniques with movement phases increasing in difficulty. Emphasis on projection, style and quality of movement. *May be taught concurrently with DANC 111 and in alternate years.* 2 class activity hours.

**DANC 120 Introduction to Choreography** **2 hrs (Sem I)**

Application of basic principles of dance composition with emphasis on methodology and creative expression. *Open to non-majors with previous dance experience.* 2 class hours.

**DANC 121 Dance Performance and Production** **1 hr (Sem I)**

Designed to give students guided experience in rehearsal and performance while working towards a staged production. Open to non-majors through audition or instructor approval. 2 class activity hours.

**DANC 149 Dance Appreciation** **3 hrs (Sem II)**

An introduction to dance as an art form exploring the understanding of dance and its value to society. Emphasis will be placed on historical progressions of dance forms, prominent choreographers, and becoming a more discerning and sensitive dance audience member. 3 lecture hours.

**Diesel Ag-Technology**

**DEER 150 John Deere Tech Commercial and Consumer Products** **2 hrs (Sem II)**

Corequisite: DEER 150 L. Instruction presents theory and work activities relating to diagnostic procedures, adjustments and parts repair or replacement in law and grounds care equipment as well as skid steer loaders, chain saws and gas trimmers. Major emphasis on John Deere equipment. 2 lecture hours.

**DEER 150L John Deere Tech Commercial and Consumer Products Laboratory** **1 hr (Sem II)**

Corequisite: DEER 150. This course involves hands-on activities relating to diagnostic procedures, adjustments, and parts repair or replacement in lawn and grounds care equipment as well as skid steer loaders, chain saws, and gas trimmers. Major emphasis is placed on John Deere equipment. 3 laboratory hours.

**DEER 161 Agricultural Machinery** **1 hr (Sem I)**

Corequisite: DEER 161 L. The study of the operation and design of various agricultural equipment to include tillage, planting and harvesting equipment. Students will perform adjustment and maintenance activities using appropriate service manuals. 1 lecture hour.

**DEER 161L Agricultural Machinery Laboratory** **2 hrs (Sem I)**

Corequisite: DEER 161. This course involves hands-on activities relating to agricultural equipment including tillage, planting, and harvesting equipment. Students will perform adjustment and maintenance activities using appropriate service programs. 6 laboratory hours.

**DEER 163 Tractor System Fundamentals** **2 hrs (Sem I)**

Corequisite: DEER 163L. The study of diagnostics and troubleshooting procedures to solve problems on various systems found on agricultural units, as well as a study of the importance of product knowledge. Tools and test equipment will be used to repair or overhaul basic systems. The importance of shop manuals will be stressed for problem diagnosis. 2 lecture hours.

**DEER 163L Tractor System Fundamentals Laboratory** **1 hr (Sem I)**

Corequisite: DEER 163. This course involves hands-on activities that are directly related to various systems found on agricultural units. Tools and test equipment will be used to repair or overhaul basic systems. The importance of service programs will be stressed for problem diagnosis. 3 laboratory hours.

**DEER 190 Cooperative Work Experience** **3 hrs (Summer)**

Students will be employed ten weeks at sponsoring dealerships. This time will be during the summer between the first and second year. Designated objectives, agreed upon by Vincennes University, the dealership and students will be assigned by the dealership. VU faculty will visit dealerships during this time to check on progress on objectives. A minimum of 400 hours of on-the-job training is required.

**DEER 237 Advanced Hydraulics** **3 hrs (Sem II)**

Corequisite: DEER 237L. An advanced study of hydraulics, system flows and circuits of current and older equipment as well as radial and axial piston pumps, electro-hydraulic valves, and the use of test equipment to solve problems on current agricultural equipment. Theory and operation are to be explained. Major emphasis on John Deere equipment. 3 lecture hours.

**DEER 237L Advanced Hydraulics Laboratory** **3 hrs (Sem II)**

Corequisite: DEER 237. This course involves hands-on activities related to hydraulic system flows and circuits of current and older equipment as well as radial and axial piston pumps, electro-hydraulic valves; and the use of test equipment to solve problems on current agricultural equipment. Major emphasis is placed on John Deere equipment. 9 laboratory hours.

**§DEER 270 Advanced Diagnostics<sup>R/W/S</sup>** **3 hrs (Sem II)**  
Corequisite: DEER 270L. Course addresses John Deere advanced electrical and hydraulic diagnostics. This course also includes component and system diagnostics for global positioning systems. 3 lecture hours.

**DEER 270L Advanced Diagnostics Laboratory** **1 hr (Sem II)**  
Corequisite: DEER 270. This course involves hands-on activities that are directly related to advanced electrical and hydraulic diagnostics as well as component and system diagnostics for global positioning systems. Major emphasis is placed on John Deere equipment. 3 laboratory hours.

#### **Diesel, Truck and Heavy Equipment Mechanics Technology**

**DESL 101 General Equipment Maintenance and Use for the Non-Technician** **3 hrs (Sem I)**  
Prerequisite: None. This course addresses safety issues related to motorized equipment, principles and operation of engines, pumps, drive trains, and electrical systems; preventive maintenance recommendations and demonstrations. 3 lecture hours.

**DESL 120 Diesel Chassis Systems** **4 hrs (Sem I)**  
Corequisite: DESL 120L. This course addresses the diagnosis, repair and various services related to heavy-duty wheel, brake, steering, alignment, and suspension systems. 4 lecture hours.

**DESL 120L Diesel Chassis Systems Laboratory** **3 hrs (Sem I)**  
Corequisite: DESL 120. This is a hands-on course that introduces the student to the repair of heavy duty wheel, brake, steering and suspension systems. Wheel alignment techniques will also be covered. 9 laboratory hours.

**DESL 130 Diesel Engine Systems** **4 hrs (Sem II)**  
Corequisite: DESL 130L. Instruction presents engine operating principles and theories as well as Diesel Fuel Systems and hands-on training related to modern diesel engines. Students will learn inspection, troubleshooting, overhaul and engine replacement procedures. 4 lecture hours.

**DESL 130L Diesel Engine Systems Laboratory** **3 hrs (Sem II)**  
Corequisite: DESL 130. This is a hands-on course that introduces the student to the repair of modern diesel engines. The course will include inspection, troubleshooting, overhaul and engine replacement procedures. 9 laboratory hours.

**DESL 140 Diesel Hydraulic Systems** **2 hrs (Sem II)**  
Corequisite: DESL 140L. The study of hydrostatic and hydrodynamic system theory of operation, including gear, piston pumps, spool, poppet, and electro-hydraulic valves problem diagnosis and repair procedures. 2 lecture hours.

**DESL 140L Diesel Hydraulic Systems Laboratory** **2 hrs (Sem II)**  
Corequisite: DESL 140. This is a hands-on course that introduces the student to the repair and troubleshooting of hydrostatic and hydrodynamic systems. The course will include the repair of gear and piston type pumps, spool, poppet and electro-hydraulic valves. 6 laboratory hours.

**DESL 215 Diesel Drive Trains** **3 hrs (Sem I)**  
Corequisite: DESL 215L. Instruction presents theory and work activities relating to the transfer of power from the engine to the drive wheels. Troubleshooting, repair, replacement, adjustment and preventative maintenance procedures will be presented for the service of clutches, drive shafts, differentials, drive axles, standard and automatic transmissions. 3 lecture hours.

**DESL 215L Diesel Drive Trains Laboratory** **2 hrs (Sem I)**  
Corequisite: DESL 215. This is a hands-on course that introduces the student to the repair, inspection, adjustment and replacement of clutches, driveshafts, differential assemblies, and transmissions. 6 laboratory hours.

**DESL 240 Diesel Electronic Systems** **3 hrs (Sem I)**  
Prerequisite: AUTO 110. Corequisite: DESL 240L. A continuation of AUTO 110 which addresses the diagnosis and repair of various electrical and electronic systems commonly found on vehicles today. Electrical/electronic troubleshooting will be stressed. 3 lecture hours.

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**DESL 240L Diesel Electronic Systems Laboratory** **2 hrs (Sem I)**

Corequisite: DESL 240. This is a hands-on course that introduces the student to the diagnosis and repair of various electrical and electronic systems commonly found on modern vehicles. Electrical/Electronic troubleshooting will be stressed. 6 laboratory hours.

**§DESL 260 Diesel Preventative Maintenance<sup>R/W/S</sup>** **3 hrs (Sem II)**

Corequisite: DESL 260L. Course coverage includes inspection of cab and body, tires and wheels, engine compartment, electrical/electronics and cab, undercarriage components. These tasks will be done to DOT specifications. Pre-trip inspections are also covered. 3 lecture hours.

**DESL 260L Diesel Preventative Maintenance Laboratory** **1 hr (Sem II)**

Corequisite: DESL 260. This is a hands-on course that introduces the student to the inspection of a vehicle's cab, body, tires, wheels, engine compartment, electrical/electronic systems, and undercarriage components per DOT specifications. Pre-trip inspections will also be performed. 3 laboratory hours.

**Graphic Design**

NOTE: A grade of C or better must be maintained in all Major Program Requirements or the course(s) must be repeated.

**DESN 105 Introduction to Illustration** **3 hrs (Sem I)**

An introduction to the material and techniques of drawing, sketching and illustration theory. Lessons will include the study of shape, contour, light, shadow, reflections, perspective and composition. Emphasis will be placed on hard-line product illustration and commercial rendering and illustration. Techniques in pencil, colored pencil, pen and ink and markers will be covered. Color theory and commercial applications of color in advertising will be implemented through lecture and project assignments. 6 studio hours.

**DESN 110 Visual Design** **3 hrs (Sem I)**

Through an introduction of the design process, a application of visual organization theory, such as figure/ground relationships, eye-direction, and visual perception will be applied to design problems. Also, basic color theory principles will be studied, such as color harmonies and the perception and psychology of color. Emphasis will be placed on gaining basic technical skills necessary in graphic design, as well as development of individual creativity in solving specific design problems. 6 studio hours.

**DESN 115 Illustration** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in DESN 105. A continuation of methods and techniques learned in DESN 105 with advanced applications on various paper surfaces. The introduction of wet media such as watercolor, watercolor pencils, and brush and ink will be covered. Illustration methods for newspaper, magazine and brochures with application of current illustration techniques will be emphasized. 6 studio hours.

**DESN 120 Computer Illustration** **3 hrs (Sem I, II)**

This course contains in-depth instruction in the use of Adobe Illustrator to produce vector illustrations, graphics and logos. As a studio course, every aspect of the class will be totally hands-on. Each tool and function will be explained, demonstrated and used by every member of the class in order to gain understanding and develop skills and proficiency. A strong background in this industry standard software program is essential in keeping with today's high technology requirements within the graphic design industry. Areas of concentration include: graphic creation, use of tools, text applications and modifications, and color separations and output. 6 studio hours.

**DESN 125 Graphic Design I** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in DESN 110. This course will explore the principles of design and their application to objective and non-objective graphic problems. Students will examine the elements of a layout, the different formats of an advertising layout a designer may use, and methods used to produce these layouts. Package design and theory will be studied and applied to a realistic project. 6 studio hours.

**DESN 130 Typography** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in DESN 120. Typography will explore the technical and creative subtleties of the letterform and the creative use of typefaces and letterforms as an element of design in visual communication. Students will gain an understanding of typeface development, type identification and type stylization. Other areas of study include type and letter forms as design elements, creative type adjustment through leading, kerning and baseline shift, letterform structure, and modifying characters for logo and identity marks. 6 studio hours.

**DESN 200 Computer Imaging** **3 hrs (Sem I, II)**

This course will offer advanced, in-depth instruction of all aspects of Adobe Photoshop. Assignments encourage students to explore personal creative expression while developing skills and understanding of color correction and enhancement, image manipulation, photo-composite collage, and filter effects. Students will also gain valuable skills in scanning, image resolution adjustment, and file preparation necessary to produce images for print or web applications. This course will provide a solid background of experience with one of the most essential bitmap imaging tools in the graphic design industry today. 6 studio hours.

**DESN 210 Graphic Design II<sup>S</sup>** **3 hrs (Sem I)**

Prerequisite: A grade of C or better in DESN 125. A continuation of the development of practical problem solving and creativity as it applies to graphic design. Client projects will be introduced, and more formal client presentations will be practiced and emphasized. Digital comprehensive layouts will be produced. Business and budget considerations will be discussed. 6 studio hours.

**DESN 215 Multimedia I** **3 hrs (Sem I, II)**

This course offers students the fundamental aspects of multimedia presentations and internet site presentation graphics and animation using Macromedia Flash. Hands-on learning and step-by-step instruction of this software will begin with introductory level projects and expand to more creative and individual intermediate production skills through a variety of design assignments. The course work will develop a solid foundation and practical understanding of the drawing tools, animation, use of sound, scanning and placing images, transitional effects, interactivity and various file formats. 6 studio hours.

**DESN 220 Advanced Illustration** **3 hrs (Sem I)**

Prerequisite: A grade of C or better in DESN 105 and DESN 115. Students will explore contemporary and traditional styles of illustration. Emphasis will be placed on stylized and simplified methods of illustration utilizing traditional use of various mediums such as pencil, pen and ink, watercolor, acrylic, marker, scratch board and combinations of these mediums. 6 studio hours.

**DESN 225 Graphic Design III** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in DESN 210. This course is a continuation of Graphic Design II, but will be structured to simulate a working design studio/advertising agency environment. Utilizing contemporary image editing and page layout applications, students will produce a variety of portfolio quality projects focusing on multiple page or panel assignments, such as brochures and packages. An emphasis will be placed on the integration of appropriate design and typography styles into the projects. Proper preparation of computer files for print production will be practiced. 6 studio hours.

**DESN 230 Multimedia II** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in DESN 215. Advanced course work in Macromedia Flash, multimedia and web animation and presentation authoring software, creating interactive and self-running presentations, web applications and animation. Building on DESN 215, this advanced course will offer students a chance to explore creative and original avenues that include working with and inputting sound, graphics, digital images, video, and animation into web applications. As a capstone for the program, students will build their personal, digital multimedia portfolio/self promotional piece suitable for CD and internet presentation. 6 studio hours.

**DESN 240 Advanced Digital Imaging** **3 hrs (Sem I)**

Prerequisite: A grade of C or better in DESN 200. Restricted to Graphic Design majors. This course is a continuation of DESN 200. Students will utilize the current image editing software to explore advanced digital techniques including: masking and layering, smart objects and smart filters, vanishing point functions, and the integration of vector and raster graphics. Photorealistic images will be created using digital effects, styles and textures. Other topics will include file management, digital image workflow, as well as advanced design and composition issues. 6 studio hours.

**§DESN 250 Portfolio Review<sup>R/W</sup>** **3 hrs (Sem II)**

Prerequisites: A grade of C or better in DESN 105, DESN 110, DESN 120, DESN 125, DESN 130, DESN 200, and DESN 210. Students will continue to prepare and finalize design projects for inclusion in their portfolios. At the completion of the course, student portfolios will be reviewed by faculty members and members of the Graphic Design Advisory Committee. Resume writing, job interview skills, and job search skills will also be included in the course content. (*Open only to majors in their final semester.*) 6 studio hours.

**DESN 260 Design and Production Studio<sup>S</sup> 3 hrs (Sem II)**

Prerequisite: A grade of C or better in DESN 120, DESN 200, and DESN 210. This course covers the application of design into final art on disk, ready for press output. Projects are developed from the needs of the community, college, and local businesses. Projects may include package labels, posters, corporate identities, and other applicable assignments. These projects are developed through the concept and design stage to final computer files ready for the printing process. Contemporary image editing and page layout applications will be utilized in the production of the designs on disk. An emphasis will be placed on the characteristics of how different software applications interact, as well as the strengths and weaknesses of each application in producing final production art. Portfolio quality projects are presented to clients as comprehensive layouts. 6 studio hours.

**Drafting and Design/CAD**

**DRAF 101 Introduction to Drafting 3 hrs (Sem I, II)**

This is an introductory course in the fundamentals of drafting. The following topics will be addressed: projections, dimensioning, pictorials, sketching, and other applications of drafting as they are related to manufacturing. 2 lecture hours, 2 laboratory hours.

**§DRAF 110 Mechanical Drafting 4 hrs (Sem I)**

Introduction to basic concepts and ANSI practices of technical drawing. Topics include lettering, use and care of instruments, applied geometry, sketching, multiview projection, pictorial projection, auxiliary projection, and sectioning. 2 lecture hours, 6 laboratory hours.

**DRAF 120 Computers for Technology 2 hrs (Sem I, II)**

This course is designed to meet the special computer needs of technology students. Computer software and hardware experiences, as they relate to technology students, will be covered. No prior computer experience is assumed. 2 lecture hours, 2 laboratory hours.

**§DRAF 140 Introduction to CAD 3 hrs (Sem I, II)**

Introduction to computer aided drafting using AutoCAD software. This course is primarily designed for drafting and surveying majors but open to all students interested in learning the basics of AutoCAD. Topics include: 2D drawing commands, coordinate systems, editing commands, paper and model space, inquiry commands, layers, plotting, text, and basic dimensioning. 2 lecture hours, 2 laboratory hours.

**DRAF 145 Pro/ENGINEER Fundamentals 3 hrs (Sem I)**

Topics include sketching, part modeling, assemblies, editing, parametric relationships, configuration files, and basic model management techniques. 2 lecture hours, 2 laboratory hours.

**DRAF 150 Descriptive Geometry 3 hrs (Sem I)**

Prerequisite: DRAF 110. Students will draw and calculate three-dimensional problems. Theory and methods include graphic developments and the relationships between points, lines and planes, curved lines and surfaces, intersections, and development. 2 lecture hours, 2 laboratory hours.

**DRAF 155 Advanced Mechanical Drafting 4 hrs (Sem II)**

Prerequisite: DRAF 110. A continuation of DRAF 110. Skill development is placed on the ASME methods of dimensioning and tolerancing of mating parts, threads and fasteners, working drawings, and manufacturing processes. 2 lecture hours, 6 laboratory hours.

**DRAF 185 Pro/ENGINEER Advanced Part Design 3 hrs (Sem II)**

Prerequisites: DRAF 110, DRAF 145. Topics include patterning, family tables, relations, measuring and inspecting models, groups, copy, mirror, assembly creation, explode states, layers, map keys, investigating parent/child relationships, capturing design intent, and resolving failures. 2 lecture hours, 2 laboratory hours.

**DRAF 190 Industrial CAD I 4 hrs (Sem II)**

Prerequisite: DRAF 110 and 140. This course is a continuation of DRAF 140 in which the student will learn advanced CAD techniques to create complete detail and assembly drawings per typical industry standards using AutoCAD software. 2 lecture hours, 6 laboratory hours.

**DRAF 191 Computer Aided Industrial Drafting 3 hrs**

Prerequisite: A grade of C or better in DRAF 140. A continuation of DRAF 140 to include mechanical detailing, assembly drawings, sectioning, layers, library parts, and system operations on the CAD System. Offered only at Jasper Campus. 2 lecture hours, 2 laboratory hours.

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**DRAF 200 Internship in Industrial Drafting** **3 hrs (Sem I, II, Summer)**

Prerequisites: DRAF 150, 155, 190 and 230. Students will experience work activity in an industrial/engineering setting with the cooperation of the employer. An individual training agreement will be developed between the employer, students, and the instructor. Students may select an employer or be placed based upon employer availability. Students will be supervised by employer and instructor per guidelines of the internship agreement. A minimum of 320 hours of on-the-job training is required.

**DRAF 210 Jig and Fixture Design** **4 hrs (Sem I)**

Prerequisites: DRAF 150, 155 and 230. Includes solutions to typical tooling problems in manufacturing parts and assemblies. Students will learn design procedures for the selection of standard tooling components and materials in the design of a jig or fixture. 2 lecture hours, 6 laboratory hours.

**DRAF 220 Plastic Part Design** **3 hrs (Sem I, II)**

Prerequisite: DRAF 155 or MTIM 165. This course provides a fundamental overview of plastic part design for the process of injection molding. Emphasis is placed on plastic part design and material selection to aid in the development of a plastic part that is functional, manufacturable, and aesthetically pleasing. Topics will include appropriate material selection, functional design considerations (draft, wall thickness, textures, sinks, knit lines, etc.), assembly techniques and manufacturing considerations. Similar processes such as blow molding, extrusion, thermoforming and die-casting will also be discussed. 2 lecture hours, 2 laboratory hours.

**§DRAF 230 Tolerancing Applications<sup>R</sup>** **3 hrs (Sem I)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and DRAF 110. Includes solutions to typical tolerancing problems in manufacturing individual parts and assemblies. Topics include ANSI/ASME dimensioning methods, tolerancing techniques, tolerance analysis, and geometric dimensioning and tolerancing. 3 lecture hours.

**DRAF 260 Die/Mold Design<sup>S</sup>** **4 hrs (Sem II)**

Prerequisite: DRAF 210. This course is designed to give students the basic concepts involved in die and mold design. Topics of die design include blanking, piercing, notching, and bending. Topics of injection mold design include mold base selection, shrinkage, actions, inserts, core pins, ejectors, gates, runners, and cooling. 2 lecture hours, 6 laboratory hours.

**§DRAF 276 Advanced CAD/Furniture Design<sup>R/W/S</sup>** **3 hrs**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course is designed to utilize all competencies developed up to this point in the program. Students will develop and devise products for use in furniture producing industries. Engineered products, devised manufacturing methods, and calculated costs and time of production will be focused. Findings will be presented to the Board of Advisors of the Furniture Production Technology program. *Offered only at Jasper Campus.* 2 lecture hours, 2 laboratory hours.

**DRAF 278 Pro/ENGINEER Production Drawings and Surface Modeling** **3 hrs (Sem I)**

Prerequisites: DRAF 155, DRAF 185. This course will cover two specific topics and will be taught as two classes. Topics of Production Drawings will include how to create drawings and formats, parametric notes, automated bill of materials, how to detail drawings, and how to take advantage of the parametric and associative nature of the CAD data when configuring drawings. Topics of Surface Modeling will include the use of various techniques to create complex surfaces with tangent and curvature continuities, creating solids using the surfaces as references, how to analyze surfaces for quality, and various editing tools used to manipulate surfaces. 2 lecture hours, 3 laboratory hours.

**DRAF 285 Employment Seeking Methods<sup>W</sup>** **1 hr (Sem I)**

This course is designed to prepare students for the task of looking for employment upon graduation. Content will include writing cover letters, resume writing, personal presentation, employee rights, interview process, job search methods, and how to analyze the job interview. 1 lecture hour.

**DRAF 292 Pro/ENGINEER Sheetmetal, Cabling and Piping Design** **3 hrs (Sem II)**

Prerequisites: DRAF 210, DRAF 278. This course will cover two specific topics and will be taught as two classes. Topics of Sheetmetal Design will include the design characteristics of sheetmetal parts and assemblies, creation of sheetmetal design models using sheetmetal features, creation of the flat state of the model, and documenting the design. Topics of Cabling/Piping will include 3-D electrical harnesses, tubing, and industrial piping. 2 lecture hours, 3 laboratory hours.

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**DRAF 294 Pro/ENGINEER Advanced Assembly and Mechanism Design** **3 hrs (Sem II)**

Prerequisites: DRAF 210, DRAF 278. This course will cover two specific topics and will be taught as two classes. Topics of Advanced Assembly will include the use of advanced assembly tools that enable addition to and maintenance of the design, methods to increase system performance when working with large assemblies, creating and using predefined assembly structures and skeletons, and using simplified representations in complex parts and assemblies. Topics of Mechanism Design will include mechanism connections, configuring the mechanism model, creating a kinematic analysis and evaluating results, determining the range of motion between components in moving assemblies, creating of cam connections that enable parts to “push” other parts they come into contact with, and checking for collisions between moving components. 2 lecture hours, 3 laboratory hours.

**DRAF 370 Pro/ENGINEER for Advanced Machinists** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in or concurrent enrollment in MTTD 380. This course will provide the student with the study of three-dimensional parametric modeling by applying creation methods utilized for solid, sheet metal, and surface data using Pro/Engineer CAD software. 2 lecture hours, 2 laboratory hours.

### Economics

**ECON 100 Elements of Economics** **3 hrs (Sem I, II)**

An introductory course intended primarily for students who need only one semester of economics. A survey of microeconomics, macroeconomics, international economics, comparative economic systems, historical development of economic thought. *This course is a transferIN course.* 3 lecture hours.

**§ECON 201 Microeconomics<sup>R</sup>** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011 and MATH 009, or SAT Reading score of 420 or greater, or appropriate placement test scores. A descriptive and analytical study of the market economy, including market structures, pricing, and distribution and determination of wealth and income. *This course is a transferIN course.* 3 lecture hours.

**§ECON 202 Macroeconomics<sup>R</sup>** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Recommended prerequisite: ECON 201. A descriptive and analytical study of fundamental concepts of our national economy. It includes an analysis of the determination and fluctuations in national income and employment, monetary and fiscal policy, and international trade and finance. Economic analysis of monetary and fiscal policies is stressed. *This course is a transferIN course.* 3 lecture hours.

**§ECON 203 Survey of Labor Economics<sup>R</sup>** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Introductory course dealing with trade union development and structure, collective bargaining, labor-government relationships, development and application of labor laws, and employment aspects of civil rights legislation. 3 lecture hours.

**§ECON 208 Personal Financial Management<sup>R</sup>** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011 and MATH 009, or SAT Reading score of 420 or greater, or appropriate placement test scores. A study of the financial concerns of individuals and families. Included are family budgeting, insurance decisions, estate planning, installment buying, investment planning and tax problems. *This course is a transferIN course.* 3 lecture hours.

**ECON 280 Introduction to International Economics** **3 hrs (Sem I, II)**

Prerequisites: ECON 201 and ECON 202. This course will examine the volume and characteristics of the international economy. Recent trends and developments in international trade, finance, and government policies will be analyzed using economic principles and theories. Topics covered will include: why trade exists between nations, balance of trade, trade barriers and their effects, balance of payments and economic adjustments, fixed versus flexible exchange rates, and the effects of government trade policies. 3 lecture hours.

### Education

**EDUC 100 Numeracy and Manipulatives** **3 hrs (Sem I)**

Prerequisite: None. Through a blend of theory and practice, this course provides an overview of the development of numeric skills in children and youth. Attention will be given to showing education assistants effective implementation of strategy tools. Learning to adapt and modify classroom experiences to suit the learning needs of individual students is emphasized. 3 lecture hours.

**EDUC 101 Introduction to Education** **1 hr (Sem I, II)**

This course will help students identify with the Vincennes University teacher education programs by examining the Education Department’s Conceptual Framework, Student Handbook, the Indiana Developmental and Content standards, INTASC standards, PRAXIS exams I & II, and VU’s Guiding Principles. Stu-

dents will glean information about portfolio construction, beginnings of lesson planning, and using Live-Text through class discussions and activities. 1 class hour.

**EDUC 110 Reading Strategies** **3 hrs (Sem II)**

Prerequisite: None. Through a blend of theory and practice, this course provides an overview of the development of literacy in children and youth. It explores ways the paraprofessional may be effective in implementing strategies to assist children's development in the language arts area. Learning to adapt and modify classroom experiences to suit the learning needs of individual students is emphasized. 3 lecture hours.

**EDUC 191 PPST Preparation** **1 hr (Sem I, II)**

A self-paced course designed to help prepare Education majors for the Pre-Professional Skills Test, the first test of a three-part series known as the PRAXIS Tests, which all beginning teachers are required to pass in the state of Indiana to receive a teaching license. Uses the computerized assessment/instructional program called Learning Plus, copyrighted by the Educational Testing Service (ETS). *Course is offered on a pass/fail basis only.* 1 class hour.

**EDUC 200 Computer Technology for Teachers** **3 hrs (Sem I, II)**

Prerequisite: None. This course will give education students an introduction to the microcomputer as an instructional tool. Instruction focuses on techniques for software evaluation; programming using QBASIC and HTML; spreadsheet, database, and word processor applications; the Internet; PowerPoint; and portfolio development. 3 lecture hours, 2 laboratory hours.

**EDUC 202 Paraprofessionals in the School** **3 hrs (Sem I)**

Prerequisite: None. This course introduces the student to the role and responsibilities of the paraprofessional in the K-12 setting. Topics will cover: professionalism, support and assistance in providing instructional strategies, basic school practices and procedures, and working with other paraprofessionals, licensed staff, and diverse students. 3 lecture hours.

**EDUC 218 Psychology of Childhood and Adolescence** **3 hrs (Sem I, II)**

Prerequisite: PSYC 142. This course will include an overview of research and theory in the development of behavior in infancy, childhood, and youth, emphasizing physical, intellectual, and social development. Emphasis on the ideas of Piaget, Freud, Kohlberg, Erikson, Bronfenbrenner, Gessel, and others will be made. Child-study, childcare role playing, and class demonstrations will be an integral portion of the learning experiences. 3 lecture hours.

**EDUC 242 Educational Psychology** **3 hrs (Sem I)**

Prerequisite: A grade of C or better in PSYC 142. Presents psychological variables in learning, devoting time to factors that affect the quality and direction of teaching. Students consider four broad areas: the teacher--his/her preparation, goals, uses of psychology, classroom responsibilities; the students – how their growth affects learning and adjustment; the classroom and other learning situations; and procedures for directing classroom activities. *An optional lab is offered with this course; see course description for EDUC 242L.* 3 lecture hours.

**EDUC 242L Field Experiences in Educational Psychology** **1 hr (Sem I)**

Corequisite: EDUC 242. Provides students with the opportunity to generate 15 additional hours of field experiences for transfer to 4-year institutions that require field experiences with Educational Psychology. The primary activities of this lab are directed observations, completion of observation forms, journaling, and sharing experiences with classmates. 1 laboratory hour.

**§EDUC 251 Fundamentals of Assistive Technology** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 009, ENGL 009 and MATH 009, or SAT Reading and Writing scores of 380 or greater, or a appropriate placement test scores. An overview of a variety of assistive technology devices, services, and systems will be introduced including those that enhance individual mobility, communication, learning, work, recreation, and daily living skills. Students will learn to understand and appreciate the impact of assistive technology on the lives of people with disabilities at school, work, and home. Related legislation and the assessment process will be explored. 3 lecture hours.

**EDUC 260 Childhood Health, Safety, and Nutrition** **3 hrs (Sem I, II)**

Explores the responsibilities of teachers and childcare professionals in creating safe and healthy environments, and the intervention strategies that are employed to address issues in these areas. Students will be taught to recognize signs of malnutrition, abuse, eating disorders, violent and anti-social tendencies, environmental stressors, and physical hazards. Case studies will explore the role of counselors and the need for effective follow-up. 3 lecture hours.

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**§EDUC 290 Initial Experiences in Education**<sup>R/W/S</sup> **3 hrs (Sem I, II)**  
Prerequisites: A grade of C or better in READ 011, ENGL 009, and MATH 009, or SAT Reading score of 420 and SAT Writing score of 380 or greater, or appropriate placement test scores. Designed to give students interested in an education major an opportunity to observe and participate in the public or parochial school education process, to receive supervision and guidance in developing teaching roles, and to share with others their experiences as a means of determining individual professional career choices. Major topics include motivation, values, lesson planning, classroom management, direct and indirect instruction, professionalism, microteaching, portfolio development, and INTASC standards. 3 lecture hours, 1 laboratory hour.

**EDUC 291 Introduction to Exceptionalities** **3 hrs (Sem I, II)**  
Prerequisites: A grade of C or better in ENGL 009 and READ 011 or SAT Writing score of 380 and SAT Reading score of 420 or greater, or appropriate placement test scores. An overview of disabilities in regards to definition, etiology, characteristics, and preventions. Teaching and parenting roles will be explored in relation to current practices used in today's classroom. Methods used to help individuals achieve their full potential will be considered. 3 lecture hours.

**EDUC 292 Foundations of Education** **3 hrs (Sem I, II)**  
This course provides a contemporary view of the field of education and presents key issues to students who are considering a career as a teacher. Through lectures, films, speakers and school visits, students will cover the topics of philosophical foundations, history of American education, teacher motives, problems, skills and attitudes, school models, curriculum and administration, unionism, inequality, violence, student rights, salaries, the job market and licensing. 3 lecture hours.

**EDUC 293 Practicum in Special Education** **3 hrs (Sem II)**  
Prerequisites: EDUC 290 and 291. Supervised internship experiences in special education agencies and/or elementary school classrooms and on-campus sessions providing simulated problem situations and instruction in appropriate teaching techniques. Exposure to practical problems and solutions related to elementary or secondary education students with exceptionalities. 3 lecture hours, 3 laboratory hours.

**♠EDUC 301 Teaching Methods I** **3 hrs (Sem I)**  
Prerequisite: Junior level standing or consent of the instructor. Introduction to subject-matter teaching in reformed middle and high schools; philosophy, organization, and curriculum of reformed middle and high schools; the role of the teacher as instructional leader and as a collaborator with colleagues; teacher responsibilities as a professional education; includes an observation practicum in local middle and high schools. 3 lecture hours, 1 laboratory hour.

**♠EDUC 302 Teaching Methods II** **3 hrs (Sem II)**  
Prerequisites: EDUC 301; and junior level standing or consent of the instructor. General methods of teaching. Emphasis on skill development in basic teaching and content area literacy strategies. Includes integration of national and state standards into planning to teach diverse learners; interdisciplinary curriculum and instruction; cooperative and individualized instruction; and integration of instructional technology, performance assessment, and management of the learning environment. Instructional and interpersonal consequences of decisions by both the teacher and the student will be discussed. Field experiences integrated with pedagogical knowledge of teaching. 3 lecture hours, 1 laboratory hour.

**EDUC 310 Management of Classroom Behavior** **3 hrs (Sem I)**  
Prerequisite: Admission to Teacher Education Program. This course will present best practices in effective classroom management, including how to establish a productive classroom climate, how to work with all students, and how to apply a variety of management techniques to help students become responsible for their behaviors and choices. 3 lecture hours.

**♠EDUC 312 Organization and Administration of Assistive Technology** **3 hrs (Sem II)**  
Prerequisite: Junior level standing or consent of the instructor. The student will develop skills and demonstrate proficiency in the knowledge and use of assistive technology devices, services, and systems in a school setting. Students will be able to document, research for specific devices, and develop maintenance plans. Assessment planning, protocol development, information management, and administrative methods will be explored. 3 lecture hours.

**EDUC 330 Teaching Methods and Materials** **3 hrs (Sem II)**  
Prerequisite: Admission to Teacher Education Program. This course will describe teaching methods, materials, and learning assessment employed in the instruction of exceptional learners. Specifically, the focus of this course will be instructional methods and materials for students with mild intervention needs, including learning disabilities, mild mental disabilities, and emotional disabilities. 3 lecture hours.

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- EDUC 340 Learning Disabilities** **3 hrs (Sem II)**  
Prerequisite: Admission to Teacher Education Program. This course will describe specific information regarding definition, etiology, and characteristics. Best practices used in teaching strategies and assessment for use with specific learning disabled students will be presented. 3 lecture hours.
- EDUC 342 Emotional Disabilities** **3 hrs (Sem I)**  
Prerequisite: Admission to Teacher Education Program. This course will describe specific information regarding definition, etiology, and characteristics. Developing skills used in assessment, teaching strategies, and behavior management for students who have emotional disabilities will be addressed. A functional assessment will be required. 3 lecture hours.
- EDUC 344 Mild Mental Disabilities** **3 hrs (Sem I)**  
Prerequisite: Admission to Teacher Education Program. This course will present specific information regarding the definition, etiology, characteristics, assessment, teaching strategies, and curricula for use with individuals who have mild mental disabilities. 3 lecture hours.
- EDUC 346 Autism Spectrum Disorders** **3 hrs (Sem I)**  
Prerequisite: Admission to the Teacher Education Program. This course will present issues related to diagnosis, etiologies, and characteristics of autism and provide the learner with readings, discussions and activities related to the Autism Spectrum Disorders (ASD). 3 class hours.
- EDUC 350 Evaluation and Exceptionality: Curriculum and Assessment** **3 hrs (Sem II)**  
Prerequisite: Admission to Teacher Education Program. This course will present an overview of the evaluation of students with special needs with emphasis on the use of formal and informal assessment instruments. Students will administer assessment instruments and use the data obtained to develop an Individualized Education Program (IEP) for a student with a mild disability. Additional types of informal assessments also will be described. 3 lecture hours.
- EDUC 352 Collaboration and Partnering: Community, Family and Paraprofessionals** **3 hrs (Sem I)**  
Prerequisite: Admission to Teacher Education Program. This course will present collaboration and partnering strategies between school professionals (special educators, general educators, and paraprofessionals), parents/families, service providers, and community outreach programs. Team strategies and communication skills used to create productive partnerships will be explored and developed. 3 lecture hours.
- EDUC 360 The Teaching of Elementary Social Studies** **3 hrs (Sem I)**  
Prerequisite: Admission to Teacher Education Program. This course will present research-based techniques and strategies that are considered to be best-practices in the field of social studies and are effective in motivating elementary students to acquire the information, skills, and modes of reasoning unique to the social sciences. Students are expected to plan and implement instruction that demonstrates the use of various methods, techniques, and materials and to expand their understanding in the field of social studies. 3 lecture hours.
- EDUC 361 The Teaching of Elementary Science** **3 hrs (Sem I)**  
Prerequisite: Admission to Teacher Education Program. This course is designed to explore and practice effective science pedagogy in the elementary school. Experiences will be provided that focus on learning theories, incorporating national and Indiana Department of Education standards in planning and instruction, the scope and sequence of science curriculum, methods of investigation, problem solving, laboratory skills, scientific attitudes, and observing and working with elementary school children. 3 lecture hours.
- EDUC 362 The Teaching of Elementary Language Arts and Reading** **3 hrs (Sem II)**  
Prerequisite: Admission to Teacher Education Program. This course will present theory and methodology of teaching elementary language arts and reading. Basic skills to help students develop competency in oral and written language will be explored. 3 lecture hours.
- EDUC 363 The Teaching of Elementary School Mathematics** **2 hrs (Sem II)**  
Prerequisites: MATH 112, MATH 212, and admission to Teacher Education Program. This course is designed to present materials, devices, and methods of teaching mathematics in the elementary school. 2 lecture hours.
- EDUC 364 Corrective Reading in the Elementary School** **3 hrs (Sem I)**  
Prerequisite: Admission to Teacher Education Program and a grade of C or better in EDUC 362. This course will emphasize the analysis, diagnosis and correction of reading problems. Students will participate in clinical experiences with elementary students. 3 lecture hours.
- EDUC 372 Teaching in the Inclusive Classroom** **3 hrs (Sem I)**  
Prerequisite: Admission to Teacher Education Program. This course will address issues related to the inclusion of students with disabilities into general education classrooms. Students will have the opportunity

to develop a personal philosophy of inclusive education, explore collaboration in schools, and learn tools for modifying and adapting curriculum and instruction to facilitate positive outcomes for students with exceptionalities in general education classrooms. 3 lecture hours.

**EDUC 374 Classroom Assessment**

**3 hrs (Sem II)**

Prerequisite: Admission to Teacher Education Program. This course will examine research, theory, and practice relevant to learning, teaching, and assessment. Methods and techniques of evaluation used to assess and report growth, development, and academic achievement of learners in elementary schools will be presented. Interpretation and uses of formal and informal assessment information also will be discussed. Students will get practical experience in assessment. 3 lecture hours.

**♠EDUC 401 Teaching in Public Schools**

**12 hrs (Sem II)**

Prerequisites: EDUC 301 and EDUC 302; *and* junior level standing or consent of the instructor. Ten weeks of student teaching to fit the needs of the individual student teacher. 70 clinical hours.

**♠EDUC 402 Teaching Units**

**1 hr (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: EDUC 401. Guidance for and experience in teaching an integrated unit of content and writing a professional report based on that instruction. 1 lecture hour.

**EDUC 477 Supervised Student Teaching in Elementary Education**

**6 hrs (Sem II)**

Prerequisite: Admission to Student Teaching. The Student Teaching experience will be completed in an inclusive classroom under the direct supervision of the University field supervisor and host teacher. Portfolio development will continue with the addition of artifacts related to interventions for students placed in the general education classrooms. One week of student orientation, followed by seven weeks of full-day teaching and related duties are required. 210 laboratory hours.

**EDUC 492 Supervised Student Teaching in Mild Intervention**

**6 hrs (Sem II)**

Prerequisite: Admission to Student Teaching. Students will engage in full-day supervised student teaching in a special education classroom serving students with mild intervention needs. The students will be supervised by university supervisors and cooperating teachers at the host school during the eight week session of full-day experience. Students may have two placements depending on the exceptionality grouping at the site. The portfolio development begun in EDUC 200 will be completed by the end of this semester. 210 laboratory hours.

**EDUC 493 Senior Capstone Experience in Education**

**3 hrs (Sem II)**

Prerequisite: Admission to Student Teaching. A course intended to synthesize and integrate the knowledge and skills of teaching and the general and liberal education course work. Students will be required to complete a major research project aimed at addressing a philosophic, social, political, economic, or historical problem connected to education. Activities in the course will include a major research paper and an oral presentation based on significant research and project results. These activities will be opportunities for students to display the content knowledge, research skills, critical thinking, affective learning, and presentation skills needed to be life-long learners. 3 lecture hours.

**Electronics Technology**

**ELEC 100 Basic Electricity and Electronics**

**5 hrs (Sem I, II)**

Basic DC/AC circuit analysis using Ohm's Law, use of test equipment, interpretation of circuit diagrams, amplifiers, digital logic, and power supplies, including batteries. Emphasis is on basic concepts and servicing techniques. 2 lecture hours, 9 laboratory hours.

**ELEC 101 Fundamentals of Audio Equipment Maintenance**

**2 hrs (Sem I)**

Practical introduction to electricity, magnetism, circuit elements, test equipment and procedures, troubleshooting, preventive maintenance. *Required course for students enrolled in the Music-Audio Recording Certificate Program.* 4 lecture/laboratory hours.

**§ELEC 110 Basic Component and Circuit Analysis**

**6 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009, ENGL 009 and MATH 011, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. Develops an understanding of basic DC and AC theory with mathematical analysis. Emphasis is on the function and characteristics of electronic components, basic circuit configurations, RCL circuits, vector analysis and resonance. 3 lecture hours, 9 laboratory hours.

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

**§ELEC 130 Digital Logic I** **3 hrs (Sem I, II)**

Prerequisites: A grade of *C* or better in READ 009, ENGL 009 and MATH 011; and a grade of *C* or better in or concurrent enrollment in ELEC 100 or ELEC 110. An introduction of fundamental digital electronic devices and circuits, including TTL logic, binary numbers, codes, Boolean algebra, and combinational logic circuits. 2 lecture hours, 4 laboratory hours.

**ELEC 151 Linear Circuits** **4 hrs (Sem I, II)**

Prerequisite: A grade of *C* or better in ELEC 110. The theory, application, and design using transistors and operational amplifiers including power transistors, FET's and other linear integrated circuits such as oscillators, timers and other specialized circuits. Emphasis is placed on biasing, troubleshooting, and testing of transistors and op-amp circuits. 2 lecture hours, 6 laboratory hours.

**ELEC 180 Digital Logic II** **3 hrs (Sem I, II)**

Prerequisite: A grade of *C* or better in ELEC 130. A course in digital electronics systems including counters, registers, decoders, digital to analog, analog to digital converters, and storage devices. Complete systems such as digital voltmeters, frequency counters, and digital clocks. 2 lecture hours, 4 laboratory hours.

**ELEC 210 Advanced Linear Circuits** **2 hrs (Sem II)**

Prerequisite: A grade of *C* or better in ELEC 110. A continuation of ELEC 151 with an emphasis on more advanced linear circuit applications. 1 lecture hour, 3 laboratory hours.

**ELEC 215 Receiver and Video Circuit Analysis** **4 hrs (Sem II)**

Prerequisite: A grade of *C* or better in ELEC 151. A course to serve as an introduction to radio frequency theory and receivers. Emphasis is placed on color television and video circuit theory. Taking the CET Test is required at the conclusion of the course. 2 lecture hours, 6 laboratory hours.

**ELEC 220 Industrial Electronics Control** **4 hrs (Sem I, II)**

Prerequisite: A grade of *C* or better in ELEC 151. A course specializing in industrial systems and control techniques. Applications include industrial power supplies, vacuum tubes, magnetic amps, syncrosystems, servomotors, stepping motors, photo devices, temperature systems, motor speed control, three phase power, digital control and ladder diagrams with emphasis on programmable controllers for industrial control. 2 lecture hours, 6 laboratory hours.

**ELEC 230 Computer Electronics** **4 hrs (Sem I, II)**

Prerequisite: A grade of *C* or better in ELEC 130. The theory and application of microprocessors for control functions. Topics such as architecture, instruction sets, assembly language programming techniques, with interfacing experiments as used in industry. 2 lecture hours, 6 laboratory hours.

**ELEC 245 Communications Electronics** **6 hrs (Sem I)**

Prerequisite: A grade of *C* or better in ELEC 151. A communications course with emphasis on AM and FM transceivers used in land/mobile communications systems, microwave communications, directional and non-directional antenna systems, and rules and regulations governing this segment of the industry. 3 lecture hours, 9 laboratory hours.

**§ELEC 285 Electronic Applications<sup>R/W/S</sup>** **6 hrs (Sem II)**

Prerequisites: A grade of *C* or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and a grade of *C* or better in ELEC 220 and 230. A course to assist students to apply their electronics skills of research and design, system development, test and calibration and circuit repair. Drafting techniques, interpreting specification sheets, printed circuit board layout, the use of logbooks, as well as specialized equipment such as storage scopes will be employed. 3 lecture hours, 9 laboratory hours.

**ELEC 286 Cooperative Work Experience** **3 hrs (Sem I, II, Summer)**

Prerequisite: This is an optional course that is open to Electronic majors who have completed ELEC 151 and 180 with a *C* or higher. Extensive practical work experience is gained through employment in the electronics industry. Performance of students is evaluated by employer and cooperative course instructor. A minimum of 200 hours of on-the-job training is required.

**Electronics Technology – Distance Education**

**§ELED 110 Basic Component and Circuit Analysis** **6 hrs (Sem I, II)**

Prerequisites: A grade of *C* or better in READ 009, ENGL 009 and MATH 011, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. Develops an understanding of basic DC and AC theory with mathematical analysis. Emphasis is on the function and characteristics of electronic components, basic circuit configurations, RCL circuits, vector analysis and resonance. 5 lecture hours, 7 laboratory hours.

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

**ELED 120 Computers for Technology****2 hrs (Sem I)**

This course is designed to meet the special computer needs of technology students. Computer software and hardware experiences, as they relate to technology students, will be covered. No prior computer experience is assumed. 2 lecture hours, 2 laboratory hours.

**§ELED 130 Digital Logic I****3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in or concurrent enrollment in ELED 110. An introduction of fundamental digital electronic devices and circuits, including TTL logic, binary numbers, codes, Boolean algebra, and combinational logic circuits. 3 lecture hours, 5 laboratory hours.

**ELED 151 Linear Circuits****3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in ELEC 110. The theory, application, and design using transistors and operational amplifiers including power transistors, FET's and other linear integrated circuits such as oscillators, timers and other specialized circuits. Emphasis is placed on biasing, troubleshooting, and testing of transistors and op-amp circuits. 3 lecture hours, 5 laboratory hours.

**ELED 180 Digital Logic II****3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in ELEC 130. A course in digital electronics systems including counters, registers, decoders, digital to analog, analog to digital converters, and storage devices. Complete systems such as digital voltmeters, frequency counters, and digital clocks. 3 lecture hours, 5 laboratory hours.

**ELED 210 Advanced Linear Circuits****2 hrs (Sem II)**

Prerequisite: A grade of C or better in ELEC 110. A continuation of ELEC 151 with an emphasis on more advanced linear circuit applications. 2 lecture hours, 2 laboratory hours.

**ELED 215 Receiver and Video Circuit Analysis****3 hrs (Sem II)**

Prerequisite: A grade of C or better in ELED 151. A course to serve as an introduction to radio frequency theory and receivers. Emphasis is placed on color television and video circuit theory. Taking the CET Test is required at the conclusion of the course. 3 lecture hours, 5 laboratory hours.

**ELED 220 Industrial Electronics Control****3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in ELED 151. A course specializing in industrial systems and control techniques. Applications include industrial power supplies, vacuum tubes, magnetic amps, syncrosystems, servomotors, stepping motors, photo devices, temperature systems, motor speed control, three phase power, digital control and ladder diagrams with emphasis on programmable controllers for industrial control. 3 lecture hours, 5 laboratory hours.

**ELED 230 Computer Electronics I****3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in ELED 130. The theory and application of microprocessors for control functions. Topics such as architecture, instruction sets, assembly language programming techniques, with interfacing experiments as used in industry. 3 lecture hours, 5 laboratory hours.

**ELED 245 Communications Electronics****6 hrs (Sem I)**

Prerequisite: A grade of C or better in ELED 151. A communications course with emphasis on AM and FM transceivers used in land/mobile communications systems, microwave communications, directional and non-directional antenna systems, and rules and regulations governing this segment of the industry. 6 lecture hours, 6 laboratory hours.

**ELED 280 Computer Electronics II****2 hrs (Sem I, II)**

Prerequisite: A grade of C or better in ELED 230. A continuation of ELED 230 with emphasis on more advanced programming and interfacing using commercially available hardware. 2 lecture hours, 2 laboratory hours.

**§ELED 285 Electronic Applications<sup>R/W/S</sup>****6 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and a grade of C or better in ELED 220 and 230. A course to assist students to apply their electronics skills of research and design, system development, test and calibration and circuit repair. Drafting techniques, interpreting specification sheets, printed circuit board layout, the use of logbooks, as well as specialized equipment such as storage scopes will be employed. 6 lecture hours, 6 laboratory hours.

**Emergency Management****EMAP 100 Principles of Emergency Management****3 hrs (Sem I)**

The course will cover concepts of emergency management and its integration of systems, basic definitions, identification of hazards and resources. The role of the local emergency manager will be discussed and how this links to specific practices and information, including community hazards analysis, mitigation strategies, damage assessment, and assistance programs for recovery. The coordination of various systems, networks, and agreements among various government and other organizations will be discussed. Legal

issues involving emergency management will be discussed. Students will learn to apply these skills and information learned through various group activities and exercises. 3 lecture hours.

**EMAP 130 Incident Management Systems 3 hrs (Sem II)**

This course covers all structures of the incident management systems. Topics include Firescope, Incident Command, Incident Management, Hospital Incident Management, and the National Incident Management System. Upon completion, students will be able to implement and operate within each system. 3 lecture hours.

**EMAP 160 Emergency Preparedness and Planning 3 hrs (Sem II)**

This course will provide each student with the tools necessary to effectively manage resources and perform risk assessment. Students will use computer software developed for emergency response and planning. 3 lecture hours.

**EMAP 180 Weapons of Mass Destruction 3 hrs (Sem II)**

This course covers nuclear, biological, chemical, and explosive incidents. Topics include the history of terrorism, N.B.C. agents, and terrorism planning techniques. 3 lecture hours.

**EMAP 205 Responding to Terrorism Incidents 3 hrs (Sem I)**

This course will prepare and improve the student's ability to analyze the appropriateness of response plans, policies, procedures, and other preparedness elements. Identify the coordination procedures among local, state, and federal responders to terrorism events. 3 lecture hours.

**EMAP 210 Leadership/Decision Making and Problem Solving 3 hrs (Sem I)**

Students will be able to clearly identify problems and the causes in order to address appropriate solutions. Students will be able to apply creative solutions to emergency and non-emergency situations. 3 lecture hours.

**EMAP 215 Emergency Exercise and Design 3 hrs (Sem II)**

This course is designed to develop skills that will enable individuals to train personnel who are responsible for preparing, responding, and recovery from disasters. This course is intended to test emergency operation plans and response capabilities. 3 lecture hours.

**EMAP 230 Emergency Operations Center (EOC) Management 2 hrs (Sem II)**

This course provides students the knowledge and skills to effectively manage and operate an EOC during crisis situations. Topics include properly locating, designing, staffing, training, and briefing EOC personnel. Upon successful completion, students will be able to demonstrate how to set up and operate an effective Emergency Operations Center. 2 lecture hours.

**EMAP 230L Emergency Operations Center (EOC) Management Lab 1 hr (Sem II)**

This course will re-enforce the didactic portion of the course. Students working as a team will develop and implement emergency plans, pertaining to actual incidents. Students will participate in a simulated model community. 1 laboratory hour.

**EMAP 250 Continuity of Operations 3 hrs (Sem I)**

This course will prepare students to work with local businesses in their communities to develop continuity plans in the event that a disaster or emergency arises and potentially puts the business out of operation. Students will review different survey forms and complete a student project of presenting a session to interested businesses on how to develop a plan for their continued operations after an emergency or disaster. 3 lecture hours.

**Emergency Medical Services – Basic**

**EMTB 212 Emergency Medical Technician-Basic 6 hrs (Sem I, II)**

Students should be 18 years of age and hold a current American Heart Association (AHA) Healthcare Provider CPR certification or an American Red Cross (ARC) Professional Rescuer CPR certification. This course is designed for individuals desiring to perform emergency medical care. Students will learn to recognize the seriousness of the patient's condition, use the appropriate emergency care techniques and equipment to stabilize the patient, and transport to the hospital. Students meeting appropriate standards will be certified by the State of Indiana as Emergency Medical Technicians. 5 lecture hours, 4 laboratory hours, 3 clinical laboratory hours.

**EMTB 220 Emergency Medical Technician-Basic Advanced 4 hrs (Sem I, II)**

Students must possess current Basic EMT certification and a current American Heart Association (AHA) Healthcare Provider CPR certification or an American Red Cross (ARC) Professional Rescuer CPR certification. This course continues to build on theory and practical skills obtained in the Basic EMT curriculum. Students will further enhance their patient assessment skills (obtaining patient medical history, physical examination of the patient, clinical decision-making, and documentation). Students will learn to safely and



precisely access the venous circulation. Other areas that will be covered include assessment of trauma systems and mechanisms of injury, assessment and implementation of a field treatment plan for patients with hemorrhage or shock, cardiovascular and environmental emergencies. Students will also learn to assess and implement field treatment of pediatric and geriatric patients. This will be completed following an assessment based management treatment process. Students who successfully complete the course are eligible to take the State Certification written and practical skills exams for the Advanced EMT. Students must complete a minimum of fifteen hours of clinical/emergency room and fifteen hours of ambulance experience as part of the course requirements which are in addition to classroom time. 6 class hours.

### **EMTB 230 Primary Instructor**

**3 hrs (Sem I, II)**

Prerequisites: Must be currently certified as an Indiana EMT-B or higher; scored 85% or higher on the State proctored BLS fund of knowledge exam and successfully completed the State proctored EMT-B practical skills exam in the past year; submitted a completed Training Institution Affiliation Form; and possess a GED or high school diploma. This course will cover learning styles, philosophies and theories of education, interpersonal communication skills as it pertains to the classroom, motivational needs, different learning environments, lesson plan development, use of multi-media, evaluation techniques, course coordination and the importance of understanding psychomotor skill development. Students successfully completing the course and State Primary Instructor exam will be eligible to enter an internship phase. 3 class hours.

### **EMTB 250 EMS Experience**

**2 hrs (Sem I, II)**

Students must possess current Basic or Advanced EMT certification. (Those that have completed the EMTB course and state testing but have not received their results may still enroll.) Students will experience realistic scenarios from dispatch to end of run activities, including scene safety, patient assessment and management, moving patients, care en-route to the hospital, communications, transfer of care, patient refusal management, proper PCR's and more. Students will work with a partner, using a "jump-kit", and everything will be treated as real. Students will learn to handle patients in cardiac arrest, having a heart attack, stroke, multiple injuries, and various real life situations. Students will be required to complete an ambulance internship outside the classroom. 3 laboratory hours.

### **EMTB 260 EMS Documentation**

**2 hrs (Sem I)**

This course will analyze problems with medical documentation within the EMS service and create documentation strategies that will improve compliance with the medical, legal, and financial aspects of EMS documentation. If one is a new EMT or Paramedic and wishes to learn how to write a patient care record that meets everyone's requirements, or perhaps employees are not documenting well enough, this course would assist in improving these areas. The basics such as formatting, spelling, and abbreviations will be covered as well as "Who is a patient," assessing and documenting mental capacity, consent to treat, dispatch, medical necessity, patient refusals, closest appropriate facility, changing the chart, improving documentation of insurance information, and effective call intake documentation. 2 lecture hours.

### **EMTF 120 Medical First Responder**

**3 hrs (Sem I)**

This course will use the United States Department of Transportation standard curriculum for Medical First Responders. This course is designed for individuals who arrive first on the scene of emergency incidents. Students are taught basic skills for administering medical, trauma, and mass casualty care during emergencies. Each student should be 18 years of age and hold a current American Heart Association (AHA) Healthcare Provider CPR certification or an American Red Cross (ARC) Professional Rescuer CPR certification. Students meeting appropriate standards will be certified by the State of Indiana as First Responders. 3 lecture hours.

## **Emergency Medical Services - Intermediate**

### **EMTI 214 Emergency Medical Technician-Intermediate I**

**6 hrs (Sem I)**

Current Basic EMT certification by the State of Indiana or National Registry and one year of experience as an active, working EMT; CPR certification with the American Heart Association or Red Cross; and proof of current PPD and Rubella Tidor are required. This course continues to build on theory and skills learned in the Basic EMT curriculum. Students will enhance knowledge of emergency pharmacology, medical administration skills, preparatory skills, airway skills, techniques of physical exams, patient assessments, hemorrhage and shocks, burns, and thoracic trauma. 5 lecture hours, 3 clinical lab hours.

### **EMTI 215 Emergency Medical Technician-Intermediate II**

**10 hrs (Sem II)**

Prerequisite: EMTI 214. This course includes training in respiratory and cardiac emergencies. Additional training is included for diabetic emergencies, allergic reactions, and poisoning. Students will receive training for abdominal, neurological, behavioral, and environmental emergencies. Emergency care in gynecological, obstetrical, neonatology, pediatric, geriatric, and pediatric advanced life support is included in the course curriculum. Students will also cover assessment based management. Students who successfully complete the Intermediate Emergency II course are eligible to take the National Registry Certification Examination. Upon successful completion of this exam, graduates may function as Intermediate EMTs in Advanced Prehospital Emergency Care. 6 lecture hours, 12 lab hours.

## Emergency Medical Services – Paramedic

### **EMTP 160 Paramedic Prehospital Care I** **7 hrs (Sem I)**

Corequisite: EMTP 165. Students must have met all prerequisites and have been accepted by the Paramedic Admission Committee. The course presents national and state emergency medical services Paramedic curriculum including rules, responsibilities, communications and regulations. Students will review body systems and learn to recognize the seriousness of the patient's condition and to use skills and knowledge in stabilizing and transporting. Theory and practical application in fluid therapy; basic and advanced airway management, including intubation; pharmacology and drug calculations; and cardiology, including 12-lead ECG and cardiac assessment will be presented. 5 lecture hours and 4 laboratory hours.

### **EMTP 165 Paramedic Clinical Education I** **5 hrs (Sem I)**

Corequisite: EMTP 160. This course reinforces lecture/laboratory experiences in the hospital and ambulance clinical environment. The application of emergency management principles in intravenous therapy, advanced airway management, mental health crises and the emergency department will be learned. The student will apply emergency management techniques in respiratory and cardiac emergencies including the use of the ECG and administration of emergency pharmacological agents. The student will also complete 100 hours internship experience on a Paramedic ambulance in addition to 50 clinical hours in the hospital.

### **EMTP 260 Paramedic Prehospital Care II** **6 hrs (Sem II)**

Prerequisite: EMTP 160. Corequisite: EMTP 265. This course continues assessment and management of the cardiac patient including Advanced Cardiac Life Support (ACLS). The student will apply principles of assessment and emergency management of trauma related injuries including hemorrhage, shock, and burns. The Prehospital Trauma Life Support course is presented. Principles of assessment and emergency management of the medical patient including endocrinology, hematology, neurology, urology, toxicology, gynecology, obstetrics, and neonatology are covered. Pediatric Advanced Life Support (PALS) and Neonatal Resuscitation Program (NRP) are two sub courses that increase preparation of the Paramedic to handle pediatric emergencies. 5 lecture hours and 2 laboratory hours.

### **EMTP 265 Paramedic Clinical Education II** **6 hrs (Sem II)**

Prerequisites: EMTP 165. Co-requisite: EMTP 260. This course continues reinforcement of lecture/laboratory experiences in the hospital and ambulance clinical environment. The application of emergency management principles in intravenous therapy, advanced airway management, mental health crises and the emergency department will be continued. The student will apply emergency management techniques in respiratory and cardiac emergencies as well as trauma, medical, OB/GYN, pediatrics, geriatrics and substance abuse related emergencies. The student will also complete an additional 150 hours internship experience on a Paramedic ambulance in addition to 150 clinical hours in the hospital.

### **EMTP 290 Paramedic Prehospital Care III** **3 hrs (Summer)**

Prerequisites: EMTP 260. Co-requisite: EMTP 291. This course continues with the study of geriatrics, home health care patients and patients with special challenges. In operations rescue awareness and crime scene awareness are presented along with terrorism and weapons of mass destruction. Operations level hazardous material is presented. A review of all didactic material and skills prepares the student for a summative written and practical exam therefore preparing them for the National Registry Exams. 2 lecture hours and 2 laboratory hours.

### **EMTP 291 Paramedic Clinical Education III** **4 hrs (Summer)**

Prerequisites: EMTP 265. Corequisite: EMTP 290. Intensive clinical and ambulance experience designed to reinforce lecture and laboratory experiences in crisis situations. A final 150 hours of internship experience must be completed on the Paramedic ambulance in addition to 200 hours of hospital clinical experiences. The course provides review of theoretical and technical content and preparation for National Registry exams and employment.

## English

### **ENGL 009 Fundamentals of Writing** **3 hrs (Sem I, II)**

This course is designed for students deficient in English fundamentals. Course work centers on writing sentences and paragraphs. Instruction is given in the elements of grammar, syntax, punctuation, and spelling. For students with a SAT Writing score of 370 or below or equivalent scores on the ACT and placement examinations. 3 class hours.

### **ENGL 011 Writing Techniques** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in ENGL 009, or SAT Writing score of 380 or greater, or appropriate placement test scores. This course is designed to help students who have completed ENGL 009 but who are not yet ready for ENGL 101 English Composition I. ENGL 011 is a review of writing and editing skills to prepare students for college writing and writing in the workplace. Students should have basic understanding of simple sentence structure; more advanced structure will be covered in class. Students will write paragraphs and short essays. Students will regularly complete assignments that relate reading and writing. 3 class hours.

**§ENGL 100 Writing Basics****2 hrs (Sem I, II)**

Prerequisites: A grade of *C* or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. Writing Basics is designed for students who need to improve their writing skills as part of job training. The course combines review of the essential elements of grammar and punctuation with instruction in the writing of short forms of written communication such as notes, memos, letters, and reports. *This course may not substitute for ENGL 101 English Composition I, nor meet any general education writing requirements.* 2 class hours.

**§ENGL 101 English Composition I****3 hrs (Sem I, II)**

Prerequisites: (1) A grade of *C* or better in READ 009, or SAT Reading score of 380, CPTR score of 59 or ACT score of 16 or greater; and (2) a grade of *C* or better in ENGL 009 or ENGL 011, or SAT Writing score of 380, CPTW score of 80 or ACT score of 16 or greater; and (3) a grade of *C* or better in or concurrent enrollment in READ 011, or SAT Reading score of 420, or CPTR score of 89 or ACT score of 18 or greater. English Composition I is a college level course in writing designed to help students develop their ability to think, to organize, and to express their ideas clearly and effectively. Emphasis is placed on the various forms of expository writing such as process, description, narration, comparison, analysis, persuasion, and argumentation. Numerous in-class writing assignments are required in addition to extended essays written outside of class. Required of all students. *This course is a transferIN course.* 3 class hours.

**§ENGL 102 English Composition II<sup>1</sup>****3 hrs (Sem I, II)**

Prerequisites: A grade of *C* or better in ENGL 101 and a grade of *C* or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A continued development of writing skills introduced in ENGL 101. Students learn how to conduct research and how to base their writing on research. In addition to shorter documented papers, all students are required to write a longer investigative paper that must be fully documented according to MLA standards. *This course is a transferIN course.* 3 class hours.

**§ENGL 107 Business English****3 hrs (Sem I, II)**

Prerequisite: A grade of *C* or better in ENGL 101. A course designed to meet the needs of students who plan to enter any phase of business--management, secretarial, etc. A study of business correspondence and research techniques is emphasized. 3 class hours.

**§ENGL 108 Technical Writing****3 hrs (Sem I, II)**

Prerequisite: A grade of *C* or better in ENGL 101. A course designed to provide students of technology with the communication skills that enable them to compose effective, precise, concise, technical reports. *This course is a transferIN course.* 3 class hours.

**§ENGL 109 Broadcast Writing****3 hrs (Sem II)**

Prerequisite: A grade of *C* or better in ENGL 101. A course exploring the various types of continuity used in today's radio and television stations. Covers news, commercials, documentaries, commentaries, editorials, variety shows and drama, from both script format and content. Special emphasis is given to news, commercials, documentaries and public affairs writing. 3 lecture hours.

**§ENGL 112 Rhetoric and Research****3 hrs (Sem I, II)**

Prerequisite: SAT Writing score of 530 or greater (23 or above on the ACT), or appropriate placement test scores. Rhetoric and Research is an advanced course in composition that combines rhetorical principles with research writing strategies. Students learn how to incorporate outside sources into their writing and how to employ critical thinking skills to help them evaluate the validity of the sources that they use. A sequence of seven papers is required (a minimum of 7000 words). Writing assignments will vary and increase in complexity from a short, one-page summary to one long, ten to twelve page research paper. Except for in-class writing, all papers must be fully documented according to MLA standards. Students who receive at least a *C* in the class will not be required to take a second semester of composition. 3 class hours.

**ENGL 125 Portfolio Development****3 hrs (Sem I, II)**

This course offers students the opportunity to earn college credit for previous work experience, in-service training, reading, and their life experience. Those with college-level learning based on those experiences will prepare a portfolio for faculty assessors to evaluate for college credit in courses taught at VU. Their portfolio documents and authenticates experiences claimed. The award of credit rests ultimately with division deans of courses involved. 3 class hours.

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

<sup>1</sup>To meet area degree requirements, students should check degree specifications elsewhere in this catalog.

**ENGL 126 Portfolio Development II** **2 hrs (Sem I, II)**

Prerequisite: A grade of C or better in ENGL 125. The purpose of this course is to offer an opportunity for students who have completed ENGL 125 to submit additional competencies to be evaluated for experiential credit. Students will revise all areas of their original portfolio and submit new competencies and documentation. 2 lecture hours.

**ENGL 127 Portfolio Development III** **1 hr (Sem I, II)**

Prerequisite: A grade of C or better in ENGL 125. The purpose of this course is to offer an opportunity for students who have completed ENGL 125 to submit additional competencies to be evaluated for experiential credit. Students will update their original portfolio and submit new competencies and documentation. 1 lecture hour.

**§ENGL 202 Creative Writing** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in ENGL 101. A course designed to give students the opportunity for creative expression through one or more of the literary genres – short fiction, novella, poetry, one-act drama, and essay. *This course is a transferIN course.* 3 class hours.

**§ENGL 205 Business Communications** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in ENGL 101. A study of the principles and techniques of effective business communication. Emphasis is placed on the preparation of clear, concise, reader-oriented memoranda, letters, resumes, proposals, and reports. Instruction is provided in research techniques and a formal research report with complete documentation is required. 3 class hours.

**ENGL 210 Advanced Expository Writing** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in ENGL 101. Advanced Expository Writing is designed to prepare students for the type of writing expected in upper level courses in the major. All writing in the course is based on sources, and students are shown how to incorporate outside material into their own writing. Documentation and the proper use of evidence in research will be emphasized. *(Recommended for students transferring to Indiana University.) This course is a transferIN course.* 3 class hours.

**§ENGL 249 Elements of General Linguistics<sup>R/W</sup>** **3 hrs (Sem I)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A study of basic linguistic concepts and an introduction to historical, comparative, descriptive, and applied linguistics. *This course is a transferIN course.* 3 class hours.

**ENGL 250 English Grammar** **3 hrs (Sem II)**

A study of the grammars of American English. A course designed to acquaint students with the modern descriptions of the structures of language. 3 class hours.

**Engineering**

**ENGR 105 Engineering Graphics** **2 hrs (Sem I)**

Prerequisite: A grade of C or better in or concurrent enrollment in MATH 101 or higher mathematics. The principles of engineering graphics are applied to the visualization, communication, and graphical analysis of problem. Included are the utilization of sketching and computer-aided design to create and analyze computer generated geometric models, manipulate coordinate systems, generate selective views, conform to graphic and database standards, and interpret engineering drawings. 4 class hours.

**ENGR 200 Engineering Surveys** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in or concurrent enrollment in MATH 118. Basic procedures employed in plane surveying; theory of errors and their analysis; theory of surveying equipment use; accuracy appraisal and adjustment; development of surveying techniques and surveying computations. 2 lecture hours, 4 laboratory hours.

**ENGR 205 Statics** **3 hrs (Sem I)**

Prerequisites: MATH 118 and PHYS 205. Mechanics for engineering students covering vectors; equilibrium; application involving beams, trusses and cables; hydrostatics; virtual work; potential energy; first and second moments of area, volume and mass. 3 lecture hours.

**ENGR 206 Dynamics** **3 hrs (Sem II)**

Prerequisites: MATH 119 and PHYS 205. Mechanics for engineering students covering kinematics, impulse and momentum, work and energy, rectilinear and curvilinear translations, relative motion, and vibrations. 3 lecture hours.

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

**ENGR 217 Linear Circuits I** **3 hrs (Sem I)**  
Prerequisite: MATH 118. Co-requisite: ENGR 217L. Fundamental properties of electric circuits. Ohm's law, Kirchoff's laws, mesh and nodal analysis with independent and dependent sources. Superposition, source transformations, Thevenin and Norton equivalency circuits. Transient response of RC, RL, and RLC circuits. Sinusoidal steady-state response and phasor diagrams. Instantaneous power, average power, RMS values. 3 lecture hours, 1 class hour.

**ENGR 217L Electronic Measurement Techniques** **1 hr (Sem I)**  
Corequisite: ENGR 217. Experimental exercises in lab instrument use. Voltage, current, impedance, frequency, and wave form measurements; frequency and transient response. 3 laboratory hours.

**ENGR 218 Linear Circuits II** **3 hrs (Sem II)**  
Prerequisite: ENGR 217. Corequisite: ENGR 218L. Continuation of ENGR 217. Use of Laplace Transform techniques to analyze linear circuits with and without initial conditions. Characterization of circuits based upon impedance, admittance, and transfer function parameters. Determination of frequency response via analysis of poles and zeros in the complex plane. Use of continuous time convolution to determine time domain responses. Properties and practical uses of resonant circuits and transformers. Input – output characterization of a circuit as a two-port. Low and high-pass filter design. 4 lecture hours.

**ENGR 218L Electronic Devices and Design Laboratory<sup>S</sup>** **1 hr (Sem II)**  
Corequisites: ENGR 218 and 255. Laboratory experiments in the measurement of electronic device characteristics. Design of biasing networks for small-signal amplifiers and switching circuits. 3 laboratory hours.

**ENGR 235 Thermodynamics** **3 hrs (Sem II)**  
Prerequisite: A grade of C or better in MATH 119 and PHYS 205. Develops an understanding of first law, second law, and some physical properties of thermodynamics, as well as some competence in application of principles to engineering systems. Entropy, reversible and irreversible processes, closed and open systems, properties of pure substances, control volume analysis, and gas power cycles. 3 lecture hours, 1 class hour.

**ENGR 255 Introduction to Electronics Analysis and Design** **3 hrs (Sem II)**  
Prerequisite: A grade of C or better in or concurrent enrollment in ENGR 218. Introduction to diode, bipolar transistor and FET circuit models for design and analysis of electronic circuits. Single and multistage analysis and design. Introduction to digital circuits. Computer-aided design calculations, amplifier operating point design, frequency response of single and multistage amplifiers. 3 lecture hours.

**ENGR 266 Introduction to Digital System Design** **3 hrs (Sem I)**  
Corequisite: ENGR 266L. An introduction to digital system design and hardware engineering, with an emphasis on practical design techniques and circuit implementation. Topics include Boolean algebra, combinational logic, minimization, gate implementation, electrical characteristics, propagation delay, timing diagrams, signed numbers, arithmetic circuits, flip-flops, Mealy and Moore machines, programmable logic devices, ABEL, and simple computer design. 3 lecture hours.

**ENGR 266L Digital System Design Laboratory** **1 hr (Sem I)**  
Corequisite: ENGR 266. Application of design techniques of ENGR 266. Implementation of logic circuits and systems. TTL and PLD packages are utilized. 3 laboratory hours.

**ENGR 270 Introductory Structural Mechanics** **3 hrs (Sem II)**  
Prerequisite: PHYS 205 and ENGR 205. Corequisite: ENGR 270L. Analysis of stress and strain, axial loading, torsional loading, flexural loading, combined loading, column loading and connections. 3 lecture hours.

**ENGR 270L Introductory Structural Mechanics Laboratory<sup>S</sup>** **1 hr (Sem II)**  
Corequisite: ENGR 270. The basic characteristics of structural elements are illustrated through lab experiments. 3 laboratory hours.

### Engineering Technology

**ENGT 106 Introduction to Circuit Analysis** **4 hrs (Offered on Demand)**  
Corequisite: MATH 101. The course covers Ohm's Law, Kirchoff's Laws, Resistance combination, Thevenin's and Norton's Theorems. Both DC and AC sources are studied as well as transformers, capacitors, inductors, and RLC circuits. Fundamental analog circuits are studied in the lab. 3 lecture hours, 3 laboratory hours.

**ENGT 107 Production Drawing** **3 hrs (Offered on Demand)**  
Prerequisite: ENGR 105. Application of the principles of engineering drawing to detail, assembly, design layout, equipment installations, and related drawing. 1 lecture hour, 5 laboratory hours.

- ENGT 109 Digital Fundamentals** **3 hrs (Offered on Demand)**  
 Corequisite: MATH 101. The course introduces basic gates and flip-flop logic devices and studies their application in combinational and sequential digital circuits. The topics covered include decoders, displays, encoders, multiplexers, demultiplexers, registers, and counters. Emphasis is placed on logic circuit analysis, IC chips and programmable logic devices, circuit testing and troubleshooting. 2 lecture hours, 3 laboratory hours.
- ENGT 116 Circuit Problems Solution Methods** **1 hr (Offered on Demand)**  
 Corequisite: ENGT 106. This course provides a structured setting for the ENGT 106 student to learn and to apply methods for solving circuit problems. 2 laboratory hours.
- ENGT 119 Digital Problems Solution Methods** **1 hr (Offered on Demand)**  
 Corequisite: ENGT 109. This course provides a structured setting for the ENGT 109 student to learn and to apply methods for solving digital problems. 2 laboratory hours.
- ENGT 150 Computer Programming for Electronics** **3 hrs (Offered on Demand)**  
 Prerequisite: A grade of C or better in MATH 012, or a CPTS EA score of 53 or greater. An introductory computer programming class using digital computers in the analysis and design of AC and DC circuits. The BASIC language is used to write programs related to electrical circuit analysis. 3 lecture hours.
- ENGT 157 Electronic Circuit Analysis** **4 hrs (Offered on Demand)**  
 Prerequisite: ENGT 106. The course covers diodes, discrete and IC regulated power supplies, transistor biasing techniques, and characteristics of small signal amplifiers, dependent sources, operational amplifiers, non-ideal DC op amp characteristics, waveform generators, and IC fabrication. Circuit fundamentals such as Kirchoff's laws are utilized in the analysis and design of circuits as well as computer aided analysis. 3 lecture hours, 3 laboratory hours.
- ENGT 159 Digital Applications** **4 hrs (Offered on Demand)**  
 Prerequisite: ENGT 106 and 109. The course is involved with the study of combinational and sequential digital applications, including input and output characteristics of common logic families and the appropriate signed conditioning techniques for on/off power interfacing. Additional topics include standard logic function blocks, digital and analog signal interfacing, and memory devices. 3 lecture hours, 3 laboratory hours.
- ENGT 160 Hydraulics, Pneumatics, and Mechanics** **5 hrs (Offered on Demand)**  
 Prerequisite: A grade of C or better in or concurrent enrollment in MATH 012. Introduction to theory and operation of hydraulic and pneumatic systems and physics of mechanics. Special emphasis on hydraulic and pneumatic components and flow diagrams for particular applications in industrial control. Basic mechanics emphasized with brief introduction to kinematics. 4 lecture hours, 4 laboratory hours.
- ENGT 196 Exploring Electrical Engineering Technology** **2 hrs (Offered on Demand)**  
 Corequisite: ENGT 106. This course explores the field of electrical engineering technology by utilizing practical experiences to teach techniques for the proper use of basic tools. Topics covered include techniques for connecting various types of circuits, fabrication of printed circuit boards, introductory processes for using plastic and metal to fabricate custom parts. Verbal and written communication skills are utilized in making reports. 1 lecture hour, 3 laboratory hours.
- ENGT 205 Introduction to Microprocessors** **4 hrs (Offered on Demand)**  
 Prerequisite: ENGT 159. A study of microprocessor fundamentals that include functional block diagrams, assembly language instructions, assembly language programming, troubleshooting software, simple input/output programs, and discussion of microprocessors. 3 lecture hours, 3 laboratory hours.
- ENGT 207 AC Electronic Circuit Analysis** **4 hrs (Offered on Demand)**  
 Prerequisite: ENGT 157 and MATH 104. The course deals with AC circuits, j operators, phasors, reactance, impedance, network theorems, and Fourier Analysis. Devices studied include passive filters, IC filters, amplifiers, resonant circuits, single phase and three phase circuits, and magnetic circuits. 3 lecture hours, 3 laboratory hours.
- ENGT 209 Civil Engineering - Technology Graphics** **3 hrs (Offered on Demand)**  
 Preparation of drawings found in civil engineering environments. Structural drawings for steel and reinforced concrete buildings and bridges; cross sections of roads; topographic maps; graphical solutions to trusses. 2 lecture hours, 3 laboratory hours.
- ENGT 210 Applied Statics** **3 hrs (Offered on Demand)**  
 Prerequisite: MATH 115, PHYS 105 and PHYS 105L. Force systems, resultants and equilibrium, centroids of areas and centers of gravity of bodies, trusses, frames, beams, friction, and moments of inertia of areas and bodies. 3 lecture hours.

- ENGT 211 Applied Dynamics** **2 hrs (Offered on Demand)**  
Prerequisite: ENGT 210. Applied fundamentals of dynamic forces, including displacement, velocities, accelerations, work, energy, power, impulse, momentum, and impact. 2 lecture hours.
- ENGT 212 Heat and Power** **3 hrs (Offered on Demand)**  
Prerequisite: MATH 115. Principles of thermodynamics and fluid dynamics as applied to the conservation laws of mass and energy, prime movers, and power cycles. 2 lecture hours, 2 laboratory hours.
- ENGT 214 Machine Elements** **3 hrs (Offered on Demand)**  
Prerequisites: ENGT 210 and 240, and ENGR 105. Theories and methods developed in statics, dynamics, and strength of materials applied to selection of basic machine components. Develops fundamental principles required for selection of individual elements that compose a machine. 3 lecture hours.
- ENGT 230 Applied Fluid Mechanics** **3 hrs (Offered on Demand)**  
Prerequisites: MATH 115, PHYS 105, PHYS 105L, and ENGT 210. Fundamentals of fluid mechanics including fluid properties, application of Bernoulli's energy equation, hydraulics, pressure, hydrostatic force on submerged area, kinematics and dynamics of fluid flow, friction losses, sizing pumps and pipes. 3 lecture hours.
- ENGT 240 Applied Strength of Materials** **4 hrs (Offered on Demand)**  
Prerequisites: MATH 115 and ENGT 210. Stress-strain relationships, axially loaded members, torsion, shear and bending moment diagrams, deflection of beams and connections. 3 lecture hours, 2 laboratory hours.
- ENGT 250 Elementary Soil Mechanics** **3 hrs (Offered on Demand)**  
Elementary concepts of geology; origin, composition, classification of soils; fundamental soil properties and stress in soils; soil testing including classification of soils, Atterberg limits, permeability, consolidation, and shear strength. 2 lecture hours, 2 laboratory hours.
- ENGT 257 Power and RF Electronics** **4 hrs (Offered on Demand)**  
Prerequisite: ENGT 207. Circuit analysis is applied to amplifiers used in power and RF electronics. Devices covered include bipolar and field effect transistors, thyristors, RF oscillators, and mixers. Topics also include AM/FM modulation, phase lock loops, frequency synthesis, switching power supplies, and active filters. Computer aided circuit analysis techniques are used. 3 lecture hours, 3 laboratory hours.
- ENGT 276 Electronic Troubleshooting Laboratory** **2 hrs (Offered on Demand)**  
Corequisite: ENGT 207. Experimental work in analyzing and repairing circuits using test instruments to locate faulty components in AM and FM receivers, television, and industrial circuits. 1 lecture hour, 3 laboratory hours.
- ENGT 296 Electronic System Fabrication** **2 hrs (Offered on Demand)**  
Prerequisite: ENGT 159, 196 and 207. This course introduces project planning and the basic concepts of electronic design automation (EDA). The student develops a project beginning with a rough sketch and ending with a finished product that is tested by using EDA techniques. The final product is presented in both a written and an oral report. 1 lecture hour, 3 laboratory hours.
- Small Business Studies**
- ENTR 121 Creating a Small Business<sup>R/W/S</sup>** **3 hrs (Sem I)**  
Topics will include analyzing your own potential, business feasibility, franchising location, insurance and owner liability, obtaining necessary capital, getting financial assistance, business plan development and computer simulation. 3 lecture hours.
- ENTR 230 Small Business Accounting** **3 hrs (Sem II)**  
Prerequisite: ACCT 100. Emphasis is on management accounting designed to develop students' decision-making abilities regarding such topics as inventory control, cash flow, cost allocation, budgets, fixed and variable costs and sources of capital. 3 lecture hours.
- ENTR 280 Small Business Problems and Concerns** **3 hrs (Sem II)**  
This course is directed toward the development of a long-range strategic business plan and will address the various internal and external environments as they relate to the small business. 3 lecture hours.
- ENTR 292 Business Plan Development** **2 hrs (Sem II)**  
This course requires thorough research project culminating in the development of a finished plan for a small business venture to be approved by an outside board of professional experts. This course is designed to be taken in students' final semester prior to graduation. 2 lecture hours.

## Earth Sciences

### §ERTH 100 Earth Science

4 hrs (Sem I, II)

Prerequisites: Students must qualify for READ 011, MATH 011, and ENGL 101. Introduction to fields of geology, meteorology, oceanography, and astronomy. Designed especially for non-science majors. *This course is a transferIN course.* 3 lecture hours, 2 laboratory hours.

### §ERTH 101 Environmental Science<sup>S</sup>

3 hrs (Sem I, II)

Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. This course examines issues and events of current importance such as pollution, natural disasters, state and federal land use (including state and national parks), and population growth concerns. Career opportunities and transfer options for fields of studies covered will be included. Presentations by professional guest speakers, and utilization of World Wide Web will provide course enrichment. 3 lecture hours.

### §ERTH 105 Geography of Indiana

3 hrs (Sem I)

Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. Examines Indiana from standpoint of basic geography and geology. Consideration of geographic and geologic history, meteorology and climatology, agriculture, mining, and population distributions. 3 lecture hours.

### §ERTH 111 Introduction to Remote Sensing<sup>R</sup>

3 hrs (Sem I)

Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. Identification and evaluation of earth resources and features using a variety of remote sensing techniques, such as aerial photographs and satellite imagery. Basic principles and applications of remote sensing are discussed as well as their application to a variety of physical, economic, and cultural features and issues. 3 lecture hours.

### §ERTH 112 Geographic Information Systems (GIS)<sup>W</sup>

3 hrs (Sem II)

Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. This course introduces the basic principles of geographic analysis and map design using Geographic Information Systems (GIS) computer software. In this "hands-on" course, students will use GIS software to analyze numerous types of spatial information to find solutions to environmental and societal problems. GIS datasets and maps will be created to do these analyses and present the results. Through this course, students have an opportunity to learn how mapping and GIS skills are used by different types of professionals, and to learn some of the skills required to become a GIS professional. 3 lecture hours.

### §ERTH 115 Physical Geology

3 hrs (Sem I, II)

Prerequisites: Students must qualify for ENGL 101 and MATH 012. Corequisite: EARTH 115L. Study of internal and external forces operating to form the earth's major features. Topics emphasize study of rocks and minerals, earthquakes, volcanic activity, glaciation, surface water, and related topics. 3 lecture hours.

### §ERTH 115L Physical Geology Laboratory

2 hrs (Sem I, II)

Corequisite: EARTH 115. Examines principles of EARTH 115. 6 laboratory hours.

### §ERTH 201 Field Geology/Geography

1 hr (Summer)

Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. Various geologic and geographic resources are examined through a one-week field trip to selected regions of U.S. Visitation to industrial, agricultural, museums, mining sites, and natural features including state and national parks. Enrollment limited to 12. Contact the Earth Science Department Chairman for additional information. *Offered on demand after Spring Semester Final Exams are completed.* 2 class hours.

### §ERTH 204 Oceanography

3 hrs (Sem I)

Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. Description of ocean environments with detailed study of seawater, ocean life, ocean circulation, marine climates, and the sea floor. 3 lecture hours.

### §ERTH 207 World Geography

3 hrs (Sem II)

Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. Application of geographic principles to interpretation of human activities in all major world regions. Emphasis on cultural, economic and political aspects of major nations. 3 lecture hours.

### §ERTH 208 Principles of Conservation

3 hrs (Sem I, II)

Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. Consideration of basic conservation and land utilization principles. Discussion and readings of contemporary ecological and resource issues. 3 lecture hours.

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- §ERTH 210 General Astronomy** **3 hrs (Sem I, II)**  
Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. General, non-mathematical survey of modern astronomy. Formation theories of solar system, nature of planets and stars, stellar classification, interstellar matter, nebulae, galaxies and cosmology. 3 lecture hours.
- §ERTH 214 Historical Geology** **3 hrs (Sem II)**  
Prerequisites: EARTH 115 and EARTH 115L. Corequisite: EARTH 214L. Introduction to earth changes throughout geologic time with emphasis on evolution and extinction of plant and animal life forms. *Offered in alternate (odd-numbered) years.* 3 lecture hours.
- §ERTH 214L Historical Geology Laboratory** **1 hr (Sem II)**  
Prerequisites: EARTH 115 and EARTH 115L. Corequisite: EARTH 214. Examines principles of EARTH 214. *Offered in alternate (odd-numbered) years.* 3 laboratory hours.
- §ERTH 216 Mineralogy** **3 hrs (Sem I)**  
Prerequisites: EARTH 115 and EARTH 115L, *and* students must also qualify for MATH 101. Corequisite: EARTH 216L. Fundamental study of minerals--building blocks of solid earth. Physical and chemical characteristics of minerals, their interrelationships, introductory crystallography, descriptive mineralogy, hand specimen identification, geologic occurrence, and rock and mineral associations. Equipment and techniques of mineralogy and brief historical synopsis. *Offered in alternate (even-numbered) years.* 3 lecture hours.
- §ERTH 216L Mineralogy Laboratory** **1 hr (Sem I)**  
Prerequisites: EARTH 115 and EARTH 115L, *and* students must also qualify for MATH 101. Corequisite: EARTH 216. Examines principles of EARTH 216. *Offered in alternate (even-numbered) years.* 3 laboratory hours.
- §ERTH 221 Meteorology** **3 hrs (Sem II)**  
Prerequisites: Students must qualify for ENGL 101 *and* MATH 012. Introduction to weather elements, cause and effect of atmospheric conditions, and construction/interpretation of weather maps. 3 lecture hours.
- ♠ERTH 304 Soil Science** **4 hrs (Sem II)**  
Prerequisites: A grade of C or better in CHEM 105 and CHEM 105L; *and* junior level standing or consent of instructor. Differences in soils; soil genesis; physical, chemical and biological properties of soils; relation of soils to problems of land use and pollution; soil management relative to agriculture, fertility, erosion, drainage, and plant nutrition. Equipment and techniques of soil science are examined. Research paper on a current topic in soil science or in teaching methodologies is required. 3 lecture hours, 2 laboratory hours.
- ♠ERTH 314 Evolution of the Earth** **3 hrs (Sem II)**  
Prerequisites: A grade of C or better in EARTH 115 and EARTH 115L; and junior level standing or consent of the instructor. Corequisite: EARTH 314L. Introduction to earth changes throughout geologic time with emphasis on evolution and extinction of plant and animal life forms. Research paper on a current topic in historical geology or in teaching methodologies is required. 3 lecture hours.
- ♠ERTH 314L Evolution of the Earth Laboratory** **1 hr (Sem II)**  
Prerequisites: A grade of C or better in EARTH 115 and EARTH 115L; and junior level standing or consent of the instructor. Corequisite: EARTH 314. Examines principles of EARTH 314 and laboratory methodologies in historical geology. 3 laboratory hours.
- ♠ERTH 316 The Rock Forming Minerals** **3 hrs (Sem I)**  
Prerequisites: A grade of C or better in EARTH 115 and EARTH 115L; a grade of C or better in MATH 101 or higher; a grade of C or better in CHEM 105; and junior level standing or consent of the instructor. Corequisite: EARTH 316L. Fundamental study of minerals--building blocks of solid earth. Physical and chemical characteristics of minerals, their interrelationships, introductory crystallography, descriptive mineralogy, hand specimen identification, geologic occurrence, and rock and mineral associations. Equipment and techniques of mineralogy and brief historical synopsis. Research paper on a current topic in mineralogy or in teaching methodologies is required. 3 lecture hours.
- ♠ERTH 316L The Rock Forming Minerals Laboratory** **1 hr (Sem I)**  
Prerequisites: A grade of C or better in EARTH 115 and EARTH 115L; and junior level standing or consent of the instructor. Corequisite: EARTH 316. Examines principles of EARTH 316 and laboratory methodologies in mineralogy. 3 laboratory hours.

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♠ Any course identified with a ♠ requires junior level standing or consent of the instructor.

## English as a Second Language

Further information about the ESL program is provided on [page 43](#) of this catalog with specific admissions requirements provided on [page 7](#).

### ESLG 001 Listening Module

4 hrs (Sem I, II, Summer)

Prerequisite: Listening Test score below 48. This beginning course places emphasis on improving students' listening comprehension of low-intermediate level oral English. Students are exposed to a wide variety of authentic materials to enhance listening skills. Eighteen class hours per week (four-week course).

### ESLG 002 Reading Module

4 hrs (Sem I, II, Summer)

Prerequisite: Listening Test score of 48 or above. The second module of the series focuses on improving students' reading comprehension and vocabulary at the intermediate level. Listening skills continue development. Eighteen class hours per week (four-week course).

### ESLG 003 Writing Module I

4 hrs (Sem I, II, Summer)

Prerequisite: Reading Test score of 48 or above. The third module emphasizes sentence, paragraph and essay construction, with a focus on upper-intermediate level, idiomatic English. Listening and Reading skills are also given some attention. Eighteen class hours per week (four-week course).

### ESLG 004 Writing Module II

4 hrs (Sem I, II, Summer)

Prerequisite: Reading Test score of 48 or above. The fourth module of the series continues the emphasis on writing skills necessary to prepare the student to matriculate in classes taught wholly in English. Consequently, while focusing on writing skills, the module also includes those reading and listening skills necessary for the idiomatic English environment. Eighteen class hours per week (four-week course).

## Family and Consumer Sciences

### FACS 100 Survey of Family and Consumer Sciences

1 hr (Sem I)

Exploration of the broad field of Family and Consumer Sciences in its many facets and orientation to the career possibilities. The curricula of various institutions will be carefully scrutinized with help in meeting the academic challenge. 1 lecture hour.

### §FACS 101 Color, Texture, and Furniture

3 hrs (Sem II)

Prerequisites: A grade of C or better in READ 009, ENGL 009 and MATH 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. An introduction to residential interior design, concentration on color, texture, and furniture. 3 class hours.

### FACS 115 Clothing I

4 hrs (Sem I, II)

Individualized instruction in beginning clothing construction. Includes the use of a commercial pattern and machine to construct an actual garment. Discussion includes wardrobe planning and consumer issues that relate to textiles and clothing. 2 lecture hours, 4 laboratory hours.

### FACS 120 Foundations of Interior Design

3 hrs (Sem II)

Basics of drafting and detailing for residential interior designs. Functionalism will be emphasized. Students will critique and design basic floor plans. 3 class hours.

### FACS 130 Infant, Toddler and Child Care<sup>S</sup>

3 hrs (Sem I)

Principles and philosophy of infant, toddler, and child care. Social, emotional, mental, and physical development from birth to adolescence as it relates to care of infants, toddlers, and children is examined. Additional topics include safety concerns, special needs of children, and guidance of children. 3 lecture/laboratory hours.

### FACS 132 The Nanny as a Professional

1 hr (Sem II)

An introductory but comprehensive course concerning the nanny as a professional including professionalism, ethics, and confidentiality; employer/employee relations, occupational communications, contracts and the law; wages and benefits; social graces; and personal development. 1 lecture hour.

### FACS 137 Home Management and Family Communications

3 hrs (Sem II)

A study of home management techniques and family communication skills with emphasis on practical application. Home management topics include home maintenance, time management, safety and security issues, household problems, emergencies, and consumer issues. Family communication topics include conflict resolution, family relations, impact of media, and guidance of children. *May be offered alternate years.* 3 lecture hours.

§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

- FACS 140 Field Placement I** **2 hrs (Sem I)**  
 Practical experience in childcare settings working with infants, toddlers, and children under the supervision of experienced teachers and childcare personnel. Placements involve caring for infants, toddlers, and preschoolers nine hours per week, for a total of at least 120 clock hours per semester. Sites include the YMCA Day Care, Headstart, and others. 9 practicum hours.
- FACS 141 Field Placement Seminar I** **1 hr (Sem I)**  
 Corequisite: FACS 140. An in-depth analysis of the field placement experience. A study of teaching principles, practices and techniques appropriate to the needs of the young child. Materials and learning experiences in language, storytelling, music, art, and motor skills as well as exploration of community resources are included. 1 lecture hour.
- FACS 142 Field Placement II** **2 hrs (Sem II)**  
 Practical experience in childcare under the supervision of childcare givers and a VU faculty member. Placement rotations build on the skills and experiences acquired in Field Placement I. Sites include homes, and day care facilities. The course offers the student responsibilities similar to those of the nanny profession. 9 practicum hours.
- FACS 143 Field Placement Seminar II** **1 hr (Sem II)**  
 Corequisite: FACS 142. A continuation of in-depth study of methods and materials. 1 lecture hour.
- FACS 151 Buying in Fashion<sup>S</sup>** **3 hrs (Sem II)**  
 A comprehensive study of fashion merchandising and buying. Topics include buying practices and techniques, consumer buying and its impact, and the promotion of fashion. (*May be offered in alternate years.*) 3 class hours.
- §FACS 156 Marriage and the Family<sup>R/W</sup>** **3 hrs (Sem I, II)**  
 Prerequisites: A grade of C or better in ENGL 101 and READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. The study of human relations following the chronological order of the family cycle. Marriage and family living are considered with regard to personal and cultural relationships. The aim is to enable students to gain a better understanding of themselves and to make a better adjustment in their family life. 3 lecture hours.
- FACS 201 Design for Interiors<sup>S</sup>** **3 hrs (Sem II)**  
 Prerequisites: FACS 120 and ARCH 102 or consent of the instructor. Planning of interiors and their furnishings in harmony with their exteriors. Projects will further develop lettering, detailing, drafting, and presentations. Visual and verbal communications as related to the interior design and housing profession. 4 studio hours.
- FACS 202 Housing Design** **3 hrs (Sem I)**  
 A study of structure, site relationships, styles, and selection as related to social, economical, and environmental needs of the family. 3 class hours.
- §FACS 203 Kitchen Design** **3 hrs (Sem I)**  
 Prerequisites: A grade of C or better in READ 009, ENGL 009, and MATH 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement scores. Instruction of all facets of kitchen design including design elements, space planning, specification, cabinetry, measuring, electrical and plumbing requirements, and customer relations. Problem solving includes construction and design plans, pictorial presentation and specifications. 3 class hours.
- §FACS 206 Fundamentals of Nutrition** **3 hrs (Sem I, II)**  
 Prerequisites: A grade of C or better in READ 009, ENGL 009, and MATH 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement scores. A study of the principles of nutrition, the requirements and interrelationship of nutrients, with application to personal and social needs. *This course is a transferIN course.* 3 class hours.
- §FACS 207 Nutrition for Child Care Administration and Educators** **3 hrs (Sem II)**  
 Prerequisites: A grade of C or better in READ 009, ENGL 009, and MATH 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement scores. Fundamental principles of nutrition and application to diets for early childhood. Methods of nutrition education, food selection, habits, legislation, food service and food in the classroom. Designed primarily for child care, early childhood education, and education majors. 3 lecture hours.
- §FACS 210 Food Preparation<sup>S</sup>** **3 hrs (Sem I)**  
 Prerequisites: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. The basic principles involved in the preparation of food are both studied and applied. 2 lecture hours, 4 laboratory hours.

**FACS 211 Food Preparation and Nutrition Laboratory** **1 hr (Sem I)**

A course designed for the child care professional nanny certificate student. Proper preparation of foods, food sanitation, healthy snacks, and the meeting of the nutritional requirements of children with special needs will be emphasized. 2 laboratory hours.

**FACS 215 Clothing II** **4 hrs (Sem II)**

Intermediate clothing construction includes selection and care of clothing as related to roles and self-concept. Laboratory emphasis will be on originality and skill in construction, pattern selection, alteration and fitting, pressing, and decoration techniques. 2 lecture hours, 4 laboratory hours.

**FACS 220 Tailoring** **3 hrs (Sem II)**

A course in tailoring, custom tailoring of a suit or coat and advanced construction principles to develop interest, skill, and professional ability. 5 lecture/laboratory hours.

**FACS 225 Textiles** **3 hrs (Sem II)**

A study of textile fibers, yarns, fabric structure, color, design, and finishes with relation to textiles of importance to consumers. 3 lecture/laboratory hours.

**§FACS 235 Child Care and Curriculum Development** **3 hrs (Sem I)**

Prerequisite: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or a appropriate placement test scores. Suggested corequisite: FACS 235L. Emphasis is placed upon the nature of early childhood development, influences on learning, and basic curriculum development and lesson planning utilizing developmentally appropriate practice for children under six. 3 lecture hours.

**FACS 235L Child Care Laboratory I** **2 hrs (Sem I)**

Prerequisite: Mantoux TB test at the students' expense. Corequisite: FACS 235. A practicum designed to allow students hands-on experience working with children in a day care setting. Students will be required to develop and implement learning activities while working with children. 6 laboratory hours.

**FACS 237 Child Care Administration** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 009, ENGL 009, MATH 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. Suggested corequisite: FACS 237L. Emphasis on planning, funding, staffing, budgeting, licensing, managing and evaluating child care programs. Parent participation, coping with behavior problems and menu planning to meet federal requirements are also studied. 3 lecture hours.

**FACS 237L Child Care Laboratory II** **2 hrs (Sem II)**

Prerequisite: Mantoux TB test at the students' expense. Corequisite: FACS 237. Students will continue to develop skill in working with children in a day care setting. Development of lesson plans and activities is required. 6 laboratory hours.

**FACS 251 Visual Merchandising<sup>S</sup>** **3 hrs (Sem II)**

This course examines visual merchandising as applied to presentation and sales promotion in fashion retailing and wholesaling. Cost-effective techniques will be discussed. The student will have opportunity to develop display skills through hands-on practice. (*May be offered in alternate years.*) 3 lecture hours.

**FACS 252 History of Costume<sup>S</sup>** **3 hrs (Sem II)**

Survey of history of clothing from primitive times to the present, designed to develop an understanding of fashion as exemplified in wearing apparel and to relate apparel to the history. 3 class hours.

**FACS 255 Internship in Family and Consumer Sciences** **1 hr (Sem I, II)**

Prerequisite: Sophomore standing and approval of department chair. This course is designed primarily for family and consumer sciences majors in one of the following major concentrations: fashion merchandising, interior design, or child development. This course is designed to provide an opportunity for off-campus supervised and coordinated career-work experience in a cooperating business related to the students' major interest. A limited number of internships may be available through the department. Students must apply for the opportunities when announced. Students who are already employed in a position directly related to the field should confer with their advisors and department chair to determine whether it may qualify as internship credit. 1 class hour.

**FACS 256 Internship in Family and Consumer Sciences** **2 hrs (Sem I, II)**

Same as FACS 255 except 2 class hours required.

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

## Business Finance

### **FINC 100 Introduction to Financial Institutions** 3 hrs

An orientation to bank operations, including the various bank functions and an elementary description to their operation. An overview of the banking field. 3 lecture hours.

### **FINC 205 Money and Banking** 3 hrs

This course presents the basic economic principles most closely related to the subject of money and banking in a context of topics of interest to present and prospective bank management. The course stresses the practical application of the economics of money and banking to the individual bank. Some of the subjects covered include structure of the commercial banking system, banks and the money supply, bank investments and loans, the Federal Reserve System and its policies, and the international monetary system. 3 lecture hours.

### **FINC 220 Credit and Collections** 3 hrs

Techniques of installment lending with emphasis on establishing credit, servicing a loan, collecting amounts due, and checking information. Other areas covered may include inventory financing, special loan programs, business development and advertising, and public relations aspects of installment lending. 3 lecture hours.

### **FINC 230 Real Estate Finance** 3 hrs

This course approaches the subject from the viewpoint of the mortgage loan officer who seeks to develop a sound mortgage portfolio. A picture of the mortgage market is presented first, then acquisition of a mortgage portfolio, mortgage plans and procedures, mortgage loan processing and servicing, and finally the obligations of the mortgage loan officer in overall portfolio management. 3 lecture hours.

### **FINC 245 Introduction to Investments** 3 hrs

Prerequisite: MATT 109. This class focuses on the essential qualities of good investments, the equilibrium valuation of securities and the institutional characteristics of securities market, including both new issues and secondary markets. Offering comprehensive coverage of analytical aspects of securities valuation especially corporate stock and treasury debt. The class also examines futures, options, and risky debt. 3 lecture hours.

### **♠FINC 305 Principles of Business Finance** 3 hrs (Sem I)

Prerequisite: Junior level standing. This course is a cross-functional survey of business finance providing a conceptual framework of the firm's investment, financing, and dividend decisions; including working capital management, capital budgeting, and capital structure strategies. Course work includes a cross-functional case done in teams. 3 lecture hours.

## Fire Science and Safety Technology

### **FIRE 100 Introduction to the Fire Service** 6 hrs (Sem I)

Students will complete the academic portion of the Fire Fighter I & II curriculum. Topics such as personal protective equipment, fire fighter safety, water supply, alarm systems, hose lays, applied rescue, and other topics will be covered. Stress will be on the importance of physical fitness in the fire service. The goal is to successfully complete both the written portion of the International Fire Service Training Association's (IFSTA) program and the practical skills related to Fire Fighter I & II. 3 lecture hours, 3 laboratory hours.

### **FIRE 101 Fire Protection Systems, Prevention and Education** 3 hrs (Sem I)

Students will study portable fire extinguishing equipment requirements, sprinkler systems installation, inspection and maintenance, special protection systems, and residential sprinklers. Students will learn to conduct prevention and education needs assessment, targeting audiences, and developing delivery systems for public fire education programs. Methods of conducting fire prevention and safety inspections will be learned. 3 lecture hours.

### **FIRE 102 Building Plans, Fire Codes and Construction** 3 hrs (Sem II)

Students will study various types of building construction, principles of fire resistance, flame spread, and smoke and fire containment. Students will also acquire a basic knowledge of plan review, blueprint reading, specifications, and schedules. Familiarization and interpretation of national, state and local codes, ordinances and laws that influence the field of fire prevention will be covered. Students will study fire and life safety codes so that they can refer to them throughout the course. 3 lecture hours.

### **§FIRE 103 Fire Equipment and Hydraulics<sup>R</sup>** 3 hrs (Sem II)

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Construction, operation, and maintenance of equipment will be studied. Driving laws and techniques will be covered as they relate to fire equipment. Students will also learn about hydraulic laws and formulas as applied to delivery and supply requirements for fire suppression. Additionally, fire apparatus UL testing and certification requirements will be studied. 3 lecture hours.

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♠ Any course identified with a ♠ requires junior level standing or consent of the instructor.

**FIRE 203 Fire Cause and Determination<sup>R</sup>** **3 hrs (Sem II)**  
This course will introduce students to the proper methods of conducting a basic fire investigation. Students will learn to determine the area and point of origin, cause and methods of fire spread, recognize and preserve evidence, arson law, constitutional law, interviewing techniques, and courtroom procedures and testimony. 3 lecture hours.

**FIRE 204 Hazardous Materials I** **2 hrs (Sem I, II)**  
Corequisite: FIRE 204L. Students will study and analyze hazardous materials incidents, recognize and identify hazardous materials, plan and implement response procedures, learn decision-making methods, and evaluation techniques at the operational level. 2 lecture hours.

**FIRE 204L Hazardous Materials Laboratory I** **1 hr (Sem I)**  
Corequisite: FIRE 204. Examines the practical aspects of FIRE 204. Students will be required to complete laboratory and practical exercises related to the study of hazardous materials at the operational level. Students will be eligible to complete the state certificate exam for Hazardous Materials Awareness and Operations. 2 laboratory hours.

**FIRE 205 Hazardous Materials II<sup>S</sup>** **2 hrs (Sem I, II)**  
Prerequisite: FIRE 204. Corequisite: FIRE 205L. Students will study techniques associated with hazardous materials mitigation, the use of monitoring devices, components of mitigation teams, and command and control of hazardous materials incidents. 2 lecture hours.

**FIRE 205L Hazardous Materials Laboratory II** **1 hr (Sem II)**  
Prerequisite: FIRE 204. Corequisite: FIRE 205. Examines the practical aspects of FIRE 205. Students will learn techniques associated with using monitoring devices and methods of cleanup and prevention of further contamination. Students will be eligible to complete the state certification exam for Hazardous Materials Technician level. 2 laboratory hours.

**FIRE 206 Firefighting Strategy and Tactics I<sup>W</sup>** **3 hrs (Sem I)**  
Students will discuss in depth firefighting strategy and tactics, methods of fire attack, fire behavior, building design, and pre-incident planning. 3 lecture hours.

**FIRE 207 Firefighting Strategy and Tactics II** **3 hrs (Sem II)**  
Prerequisite: FIRE 206. Strategy and tactics associated with special types of incidents. For example, transportation emergencies and fires, high-rise fires, below-ground incidents, confined space emergencies and special rescue situations. 3 lecture hours.

**FIRE 270 Internship in Fire Science** **3 hrs (Summer)**  
Prerequisite: Minimum of 2.5 cumulative GPA and completion of 30 credit hours. The Internship is for interested and qualified Fire Science and Safety majors with local fire departments or where they may seek employment. Supervised by Fire Science and Safety Department Chair or his/her designee. Minimum of 150 practicum hours.

#### **Foreign Languages, Modern**

NOTE: Final student placement in foreign language courses depends upon department-administered placement tests. "Rule of thumb" placement at registration: one year high school language study = Level I; two years high school study = Level II; three or four years high school study = Level III. Those with no previous foreign language study must enroll in Level I. Also note section under *General Academic Policies and Procedures, Advanced Placement*, for extra hours of credit.

#### **Foreign Language for Adults**

**FLGA 100 Exploring Languages and Cultures** **1 hr (Offered on Demand)**  
This course introduces students to survival phrases in French, German, and Spanish, and basic cultural information about the people who live in the countries where these languages are spoken. Language topics include introductions, self-identifications, greetings, and etiquette. Cultural topics include geography, products, daily schedule, values, traditions, and food in French-, German-, and Spanish-speaking countries. 1 class hour.

**FLGA 111 Beginning Foreign Language for Adults IA** **1 hr (Offered on Demand)**  
This is a beginning language course organized for those adults who wish to begin studying a foreign language and intend to continue studying for proficiency, yet have limited time. Teaching methods are adapted for the adult learner. The class meets once a week in the evening for eight weeks. The course content is approximately one-fourth of that of one of the regular FREN, GRMN, JPNS, or SPAN 101 Level I courses. Offered in French, German, Japanese, or Spanish. 1 class hour.

**FLGA 112 Beginning Foreign Language for Adults IB** **1 hr (Offered on Demand)**

Prerequisite: FLGA 111. This course is a continuation of FLGA 111. Teaching methods are adapted for the adult learner. The class meets once a week in the evening for eight weeks. Together with FLGA 111, this course gives the beginning language learner a foundation for further study in the language. After completing FLGA 111 and 112, the student will have covered approximately the first half of the content of one of the regular FREN, GRMN, JPNS, or SPAN 101 Level I courses. Offered in French, German, Japanese, or Spanish. 1 class hour.

**FLGA 113 Beginning Foreign Language for Adults IC** **2 hrs (Offered on Demand)**

Prerequisites: FLGA 111 and 112. This course is a continuation of FLGA 111 and 112. Teaching methods are adapted for the adult learner. The course meets one evening a week for sixteen weeks. Together with FLGA 111 and 112, this course gives the beginning language learner a foundation for further study in the language. For transfer purposes, taking FLGA 111, 112 and 113 is the equivalent to completing FREN, GRMN, JPNS, or SPAN 101 in credit hours and content. 2 class hours.

**FLGA 115 Beginning Foreign Language for Adults IIA** **2 hrs (Offered on Demand)**

Prerequisite: FLGA 113. This course is a continuation of FLGA 111, 112, and 113. Teaching methods are adapted for the adult learner. The course meets one evening a week for sixteen weeks and gives the beginning language learner a foundation for further study in the language. The course content is approximately the first half of the content of one of the regular FREN, GRMN, JPNS, or SPAN 103 Level II courses. Offered in French, German, Japanese, or Spanish. 2 class hours.

**FLGA 117 Beginning Foreign Language for Adults IIB** **2 hrs (Offered on Demand)**

Prerequisite: FLGA 115. This course is a continuation of FLGA 115. Teaching methods are adapted for the adult learner. The course meets one evening a week for sixteen weeks and gives the beginning language learner a foundation for further study in the language. For transfer purposes, completing FLGA 115 and 117 is equivalent to completing FREN, GRMN, JPNS, or SPAN 103 Level II in credit hours and content. 2 class hours.

**FLGA 215 Intermediate Foreign Language for Adults IIIA** **2 hrs (Offered on Demand)**

Prerequisite: FLGA 117. This course is a continuation of the Beginning Foreign Language for Adults courses. Emphasis on reading. Teaching methods are adapted for the adult learner. The course meets one evening a week for sixteen weeks and gives the intermediate language learner a foundation for further study in the language. The course content is approximately the first half of the content of one of the regular FREN, GRMN, JPNS, or SPAN 201 Level III courses. Offered in French, German, Japanese, or Spanish. 2 class hours.

**FLGA 217 Intermediate Foreign Language for Adults IIIB** **2 hrs (Offered on Demand)**

Prerequisite: FLGA 215. This course is a continuation of FLGA 215. Emphasis on reading. Teaching methods are adapted for the adult learner. The course meets one evening a week for sixteen weeks and gives the beginning language learner a foundation for further study in the language. For transfer purposes, completing FLGA 215 and 217 is equivalent to completing FREN, GRMN, JPNS, or SPAN 201 Level III in credit hours and content. 2 class hours.

**FLGA 219 Intermediate Foreign Language for Adults IVA** **2 hrs (Offered on Demand)**

Prerequisite: FLGA 217. Emphasis on writing. Teaching methods are adapted for the adult learner. The course meets one evening a week for sixteen weeks and gives the intermediate language learner a foundation for further study in the language. The course content is approximately the first half of the content of one of the regular FREN, GRMN, JPNS, or SPAN 203 Level IV courses. Offered in French, German, Japanese, or Spanish. 2 class hours.

**FLGA 221 Intermediate Foreign Language for Adults IVB** **2 hrs (Offered on Demand)**

Prerequisite: FLGA 219. Emphasis on writing. Teaching methods are adapted for the adult learner. The course meets one evening a week for sixteen weeks and gives the intermediate language learner a foundation for further study in the language. For transfer purposes, completing FLGA 219 and 221 is equivalent to completing FREN, GRMN, JPNS, or SPAN 203 Level IV in credit hours and content. 2 class hours.

**Foreign Language Study Abroad**

**FLGO 101 Beginning Language Study Abroad I** **2 hrs (Sem I, II)**

This course is designed for students with only limited or no previous language study. Such students may earn two credit hours in Foreign Language upon satisfactory performance on oral and written examination by language instructors. Travel in an acceptable program.

**FLGO 102 Beginning Language Study Abroad II** **2 hrs (Sem I, II)**

Extension of FLGO 101. Students may earn two credit hours in Foreign Language upon satisfactory performance on oral or written examination by language instructors. A grade of C or better in FLGO 101 and 102 would be equivalent to a full semester of a current elementary (101) language course. Travel in an acceptable program.

**FLGO 105 Elementary Language Study Abroad I** **4 hrs (Sem I, II)**  
Successful completion, determined by oral and/ or written examination by language instructors, is equivalent to the first semester of elementary (101) language study. Students are eligible for immediate placement in 103 level language courses. Travel in an acceptable program.

**FLGO 106 Elementary Language Study Abroad II** **4 hrs (Sem I, II)**  
Prerequisite: FLGO 105. Extension of FLGO 105. Successful completion, determined by oral and/or written examination by language instructors, is equivalent to the second semester of elementary (103) language study. Students are eligible for immediate placement in 200 level language courses. Travel in an acceptable program.

**FLGO 205 Intermediate Language Study Abroad** **3 hrs (Sem I, II)**  
Prerequisite: Two semesters of college credit already established. Successful completion, determined by oral and written examination by language instructors, is generally equivalent to the standard "civilization" course conducted by language departments. Travel in an acceptable program.

### **Funeral Service Education**

**FNRL 100 Funeral History** **2 hrs (Sem I)**  
Prerequisite: Admission to the Funeral Service Education Program. The course is a study of the history of funeral service with emphasis on the development of funeral practice in the U.S. The course presents philosophy, customs, and ethics of funeral service for an understanding of the development and practices of funeral service in the U.S. 2 lecture hours.

**FNRL 120 Restorative Art** **3 hrs (Sem I)**  
Prerequisite: Admission to the Funeral Service Education Program. Corequisite: FNRL 120L. This is a study of the methods and techniques used to restore facial features that have been damaged by injury or disease. The course emphasizes anatomical structures providing surface contour and form to head and face, classic facial proportions and photographic interpretation of the head and face. It also studies the physiological forms of head and facial structure. An in-depth study will also be made of the principles of color and cosmetics applicable to restorative art. 3 lecture hours.

**FNRL 120L Restorative Art Laboratory** **1 hr (Sem I)**  
Corequisite: FNRL 120. This laboratory emphasizes the development of skills and techniques for wax/clay modeling of individual facial features. Emphasis will also be placed on the use and application of mortuary cosmetics. 3 laboratory hours.

**FNRL 125 Embalming Orientation** **2 hrs (Sem II)**  
Prerequisite: Admission to the Funeral Service Education Program. This course is an introduction to the clinical embalming laboratory. The student will learn correct terminology and procedures as well as legal and regulatory issues related to the operation of the clinical embalming laboratory. 2 lecture hours.

**FNRL 130 Funeral Service Merchandising** **2 hrs (Sem II)**  
Prerequisite: Admission to the Funeral Service Education Program. This course is designed to give students a working knowledge and understanding of funeral merchandise and merchandising techniques. Students will gain understanding of the different types of funeral merchandise, including caskets, burial vaults, clothing, and other items found in the modern funeral home. Study will be made of the component parts of the casket as well as the different styles and types of caskets. Also included will be sales techniques as well as various pricing formulas. 2 lecture hours.

**FNRL 140 Funeral Home Operations** **2 hrs (Sem II)**  
Prerequisite: Admission to the Funeral Service Program. The course is an introduction to the business principles necessary for purchasing, establishing and operating a funeral home. It includes a discussion of inventory, inventory control, funeral home planning, human resource management and hiring practices. 2 lecture hours.

**FNRL 200 Funeral Service Law** **3 hrs (Sem I)**  
Prerequisite: Admission to the Funeral Service Education Program. This course is a study of the legal aspects, regulations and problems involved in mortuary practice. Special emphasis is given to the broad volume of mortuary case law and the effect that these decisions have on practicing as a funeral director in the twenty-first century. 3 lecture hours.

**FNRL 220 Embalming Principles** **3 hrs (Sem I)**  
Prerequisites: Admission to the Funeral Service Education program; and CHEM 100 and CHEM 100L; LFSC 107 and LFSC 107L or LFSC 108 and LFSC 109, or LFSC 111/111L and LFSC 112/112L. Corequisite: FNRL 220L. (High School Chemistry may be substituted for CHEM 100 and CHEM 100L.) This course is a study of the physical and chemical changes that take place in the human body after death and the effect that these changes have on the embalming process. A study is made of the chemical composition of the chemicals, solutions and materials used in the embalming process. Discussion will include the ne-



cessary components of embalming materials such as arterial fluids, supplemental fluids, water conditioners, special fluids and accessory embalming agents. An in-depth study of the anatomical structure of the cardiovascular system as it is used in embalming process is included. The course includes the location of and method of access for the vessels commonly used for the injection of embalming solutions and drainage of waste fluids from the body and the identification of vessels that are significant as routes for the embalming solution. 3 lecture hours.

**FNRL 220L Embalming Principles Laboratory**

**1 hr (Sem I)**

Corequisite: FNRL 220. This laboratory makes application of the principles learned in FNRL 220. Laboratory provides clinical experience in embalming principles and practices by allowing students to participate in embalming of deceased human remains. 3 hours arranged laboratory.

**FNRL 230 Psychological Aspects of Grief and Death**

**3 hrs (Sem II)**

Prerequisite: None. This course is a general introduction to development, object relationship, and loss. It includes a comparative psychology of grief, clinical thanatology and reaction to loss. Study will be made of the practical aspects of bereavement, reactions to untimely death, mourning and adaptation, the child's concept of death and reaction to death in the family. Included are approaches to counseling applicable to the grief situation and significance of the role of the counselor in post-death, pre- and post-funeral activities. 3 lecture hours.

**FNRL 240 Funeral Directing Concepts**

**3 hrs (Sem I)**

Prerequisite: Admission to the Funeral Service Program. This course deals with the information necessary to function as a funeral director in our modern society. Included is a discussion of the forms that must be completed including death certificates. A discussion is made of veteran's benefits and active duty military benefits. The course also covers the role of the funeral director in disaster management and the activities necessary for cremation of a dead human body. The course also covers compliance with such Federal regulations as the American's With Disabilities Act and the Federal Trade Commission Funeral Rule. 3 lecture hours.

**FNRL 250 Embalming Theory and Practice**

**3 hrs (Sem II)**

Prerequisites: Admission to Funeral Service Program and satisfactory completion of CHEM 101 and CHEM 101L or CHEM 110; and LFSC 210. Corequisite: FNRL 250L. This course is an advanced study in the theory and techniques of embalming. It includes case studies and embalming implications present in the wide variety of cases encountered in modern embalming. 3 lecture hours.

**FNRL 250L Embalming Theory and Practice Laboratory**

**1 hr (Sem II)**

Corequisite: FNRL 250. This laboratory makes application of the principles learned in FNRL 250. Laboratory provides clinical experience in embalming principles and practices by allowing students to participate in embalming of deceased human remains. 3 hours arranged laboratory.

**§FNRL 260 Funeral Management<sup>R</sup>**

**3 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores; and admission to the Funeral Service Education Program, and FNRL 200 and 240. Corequisite: FNRL 260L. This course is a study of the principles and practice of conducting a funeral. It includes an in-depth examination of the initial response to death, the removal of the body from the place of death, administrative practices, funeral arrangement conferences, establishment of an effective selection room and selection room techniques. It includes a discussion of pre-need arrangement and funding. Discussion is also made of the different types of funeral services and ceremonies including religious and fraternal ceremonies. 3 lecture hours.

**FNRL 260L Funeral Management Laboratory<sup>W/S</sup>**

**1 hr (Sem II)**

Corequisite: FNRL 260. This laboratory makes application of the principles learned in FNRL 260. The student will make at-need funeral arrangements, pre-need funeral arrangements and develop techniques for effective selection room arrangement. The course will also involve the use of computers and several funeral management software applications. 3 laboratory hours.

**FNRL 285 Pathology**

**3 hrs (Sem I)**

Prerequisites: A grade of C or better in LFSC 107 and LFSC 107L or LFSC 111 and LFSC 111L. This course is an introductory study to the cause, course, and effects of disease. The course examines the body systems and how disease affects each. Study is given to the historical basis for modern disease theory and the effect that these theories have had on the development of health science. 3 lecture hours.

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**FNRL 290 Seminar in Funeral Service Education** **2 hrs (Sem II)**  
Prerequisite: Permission of Program Chair. This course is an in-depth follow-up to students' theoretical study. It involves an intensive review of all theoretical and technical materials prior to graduation from the program. 2 class hours.

### French

**FREN 100 Basic Conversational French** **2 hrs (Offered on Demand)**  
An introduction to spoken language using audio-visual materials. Group practice, vocabulary building. 2 class hours.

**FREN 101 French Level I** **4 hrs (Sem I)**  
An introduction to the French language and culture with emphasis on oral skills. Guided communication tasks, vocabulary building, listening comprehension, phonetics. Use of videos, audio-visual aids, and "less-stress" techniques. Introduction to reading and writing. *This course is a transferIN course.* 4 class hours.

**FREN 103 French Level II** **4 hrs (Sem II)**  
Prerequisite: FREN 101 or appropriate placement test score. A continuation of FREN 101 with structured oral communication, vocabulary building. Reading of graded and glossed materials, basic grammatical structures, writing. *This course is a transferIN course.* 4 class hours.

**FREN 201 French Level III** **4 hrs (Sem I)**  
Prerequisite: FREN 103 or appropriate placement test score. Emphasis on reading. Conversation coordinated with reading of cultural text. *This course is a transferIN course.* 4 class hours.

**FREN 203 French Level IV** **4 hrs (Sem II)**  
Prerequisite: FREN 201. A continuation of FREN 201 with emphasis on writing. Readings on cultural and contemporary topics. *This course is a transferIN course.* 4 class hours.

**FREN 211 Intermediate French Readings I** **3 hrs (Sem I)**  
Prerequisite: FREN 201. Readings of representative literary works, including such authors as Sartre, Camus, Simenon. 3 class hours.

**FREN 212 Intermediate French Readings II** **3 hrs (Sem II)**  
Prerequisite: FREN 201. A continuation of FREN 211. 3 class hours.

**FREN 217 Intermediate Conversational French** **2 hrs (Offered on Demand)**  
Prerequisite: FREN 201. This course is designed to provide students at an intermediate level of proficiency additional listening and speaking practice in French. Conversation is coordinated with readings on cultural and contemporary topics. Students engage in dialogues and make short oral presentations. 2 class hours.

**§FREN 230 Contemporary French Civilization<sup>R/W/S</sup>** **3 hrs (Sem II)**  
Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and FREN 201. Social, cultural and political aspects of France. A special project will be chosen by the class. Readings from French texts. 3 class hours.

### Geographic Information Systems (*On Hold*)

**GIST 101 Introduction to GIS** **2 hrs (Sem I)**  
This introductory course covers history, definitions, types, and uses of GIS. Also data acquisition, input and interpretation. 2 lecture hours.

**GIST 201 GIS Software I** **3 hrs (Sem II)**  
This course is designed to introduce students to GIS software. 2 lecture hours, 8 laboratory hours (eight-week course)

**GIST 202 GIS Software II** **3 hrs (Sem II)**  
Prerequisite: DRAF 140. This course will introduce students to GIS software. 2 lecture hours, 8 laboratory hours (eight-week course).

### German

**GRMN 100 Basic Conversational German** **2 hrs (Offered on Demand)**  
An introduction to spoken language focusing on traveler's needs. Group practice, vocabulary building. 2 class hours.

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**GRMN 101 German Level I** **4 hrs (Sem I)**

An introduction to the German language and culture with emphasis on listening comprehension. Guided communication tasks, vocabulary building. Use of audio-visual aids, video, language lab, and "less-stress" techniques. 4 class hours.

**GRMN 103 German Level II** **4 hrs (Sem II)**

Prerequisite: GRMN 101 or appropriate placement test scores. A continuation of GRMN 101 with structured oral communication, vocabulary building. Introduction to reading of graded and glossed materials, basic grammatical structures, writing. 4 class hours.

**GRMN 201 German Level III** **4 hrs (Sem I)**

Prerequisite: GRMN 103 or appropriate placement test score. Emphasis on reading. Conversation coordinated with reading of cultural text, written and oral reports. Continued study of grammar structures, vocabulary building. 4 class hours.

**GRMN 203 German Level IV** **4 hrs (Sem II)**

Prerequisite: GRMN 201. A continuation of GRMN 201 with emphasis on writing. Cultural and contemporary topics. 4 class hours.

**GRMN 211 Intermediate German Readings I** **3 hrs (Sem I, II)**

Prerequisite: GRMN 201. Short stories from modern literature, including works of authors Boll, Wolf, Lenz, Brecht. 3 class hours.

**GRMN 212 Intermediate German Readings II** **3 hrs (Sem I, II)**

Prerequisite: GRMN 201. Selections from classical literature include such authors as Lessing, Goethe, Schiller. 3 class hours.

**GRMN 217 Intermediate Conversational German** **2 hrs (Offered on Demand)**

Prerequisite: GRMN 201. This course is designed to provide students at an intermediate level of proficiency additional listening and speaking practice in German. Conversation is coordinated with readings on cultural and contemporary topics. Students engage in dialogs and make short oral presentations. 2 class hours.

**§GRMN 230 A Survey of German Civilization<sup>R/W/S</sup>** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and GRMN 201. An overview of the civilization and culture of the Germanic peoples will be followed by an in-depth investigation (a topic of the student's choice). 3 class hours.

**Hazardous Materials**

**HAZA 100 Occupational Safety and Health Administration (OSHA) Regulations** **3 hrs (Sem I)**

This course provides a study of the combined elements of OSHA Regulations and Hazard Communication Standard that pertain to protecting workers from exposure to occupational hazards. Students will concentrate on researching, interpreting, summarizing, and applying the OSHA regulations for workers who handle hazardous materials. 3 lecture hours.

**HAZA 110 Introduction to Hazardous Materials** **3 hrs (Sem I)**

This course is designed to provide a general overview of the environmental hazardous materials technology area. Instruction includes learning the history of pollution, recognizing the physical and chemical characteristics of hazardous materials and how they effect the environment. 3 lecture hours.

**HAZA 120 Industrial Processes** **3 hrs (Sem II)**

Corequisites: CHEM 100 and HAZA 110. The study of industrial processes and the generation of the waste stream in various industries. The course focuses on the various raw materials and chemicals used in industry, examining the changes that occur in the industrial processes, and understanding the material balance concept of inventory. Emphasis will be placed on waste minimization and treatment concepts. 3 lecture hours.

**HAZA 200 Environmental Protection Agency (EPA) Regulations** **3 hrs (Sem II)**

Prerequisite: HAZA 110. This course provides detailed study of the Environmental Protection Agency (EPA) regulations pertaining to hazardous waste management, clean air, and clean water. Students will learn the steps in managing hazardous waste and complying with environmental regulations. 3 lecture hours.

**HAZA 210 Department of Transportation (DOT) Regulations** **3 hrs (Sem I, II)**

Prerequisites: HAZA 110 and 200. This course provides a detailed study of the Department of Transportation (DOT) regulations that are pertinent to the transporting of hazardous materials. Emphasis will be placed on learning regulation application and recommend compliance strategies in dealing with various DOT issues in handling hazardous materials. 3 lecture hours.

**HAZA 220 Emergency Response Planning** **3 hrs (Sem I, II)**

Corequisite: HAZA 110. This course is designed to teach students how to develop safety and emergency response contingency plans for a facility or community. Instruction includes hazard analysis, writing and implementing the contingency plan, training employees for an emergency, and evaluating the effectiveness. 3 lecture hours.

**HAZA 230 Hazardous Materials Incident Management** **3 hrs (Sem II)**

Prerequisites: HAZA 110 and 220. Corequisite: HAZA 210. This course covers the emergency response components of HAZWOPER (Hazardous Waste Operations and Emergency Response). Students will analyze and apply the theory of the Incident Command System (ICS) from the discovery of the hazardous to the termination procedures. 3 lecture hours.

**HAZA 240 Hazardous Materials Sampling and Monitoring Procedures** **4 hrs (Sem II)**

Prerequisites: HAZA 110 and CHEM 100. This course is a study of the variety of sampling and monitoring procedures used in industry and for emergency response. Emphasis will be placed on collecting, preserving and interpreting results of the use of various sampling and monitoring devices used with hazardous materials and complying with relevant federal regulations. 3 lecture hours, 2 laboratory hours.

**HAZA 250 Health Effects of Hazardous Materials** **3 hrs (Sem II)**

Prerequisite: CHEM 100 and LFSC 101. This course covers the acute and chronic health effects of exposure to chemical, physical and biological agents. Topics will include risk factors, routes of entry of hazardous materials and their effects on health and controls methods used for reducing exposure. 3 lecture hours.

**Health Care Management**

**♠HCMG 301 Seminar in Health Care Services<sup>R</sup>** **3 hrs (Sem I, II)**

Prerequisite: Junior level standing or consent of the instructor. As an introductory course to health care management students, it will provide a broad overview of the U.S. health care system including concepts surrounding its organization, financing, and delivery methods. In keeping with the seminar format, this course will also address selected political, social, economic, technological, legal, ethical, and surrounding issues relevant to the management of health care services. 3 seminar hours.

**♠HCMG 311 Biomedical and Managerial Statistics** **3 hrs (Sem I, II)**

Prerequisites: MATH 101 or higher; and junior level standing or consent of the instructor. As a course specifically designed for health care management students as well as interested students in the health sciences, this course will address the basic managerial and biostatistical concepts of interest to those involved in health services delivery. Topics will include vital statistics and selected public health measures, as well selected descriptive and inferential statistical applications specific to the management of health care services. 3 lecture hours.

**♠HCMG 322 Health Care Information Management** **3 hrs (Sem I, II)**

Prerequisite: Junior level standing or consent of the instructor. The successful delivery of quality health care services depends on the effective management of patient health information. As such, this course will examine the principles and practices surrounding the acquisition, maintenance, communication, and security of health data and information. Topics examined will include health information standards, paper-based and electronic health records, health record content, the filing and storage process, clinical classification systems, reimbursement methodologies, information systems, ethical and legal issues, and related concepts. 3 lecture hours.

**♠HCMG 341 Managerial Epidemiology** **3 hrs (Sem I, II)**

Prerequisites: MATH 101 or higher; and junior level standing or consent of the instructor. This course will address selected concepts and principles in epidemiology and associated quantitative applications of importance to health services managers. Particular emphasis will be placed on the integration of epidemiology, biostatistics, and the management process; that is, planning, organizing, directing, and controlling resources to address typical public health concerns encountered by community health care organizations. 3 lecture hours.

**♠HCMG 351 Medical Practice Management** **3 hrs (Sem I, II)**

Prerequisite: Junior level standing or consent of the instructor. This course will focus on the management of routine operational activities typical of outpatient medical practices. Topics will include reception, telephone management, billing and collections, banking and payroll procedures, diagnosis and procedural coding, insurance claims processing, and related issues. 3 lecture hours.

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♠ Any course identified with a ♠ requires junior level standing or consent of the instructor.

**◆HCMG 352 Long Term and Managed Care** **3 hrs (Sem I, II)**

Prerequisite: Juni or level standing or consent of the instructor. This course analyses the roles played by long term care facilities, nursing homes, home health organizations, continuing care retirement communities, and those organizations which deal with chronic health care concerns. It also offers an in-depth analysis of the nature and operations of managed care in the United States. 3 lecture hours.

**◆HCMG 401 Finance in Health Care Organizations II** **3 hrs (Sem I, II)**

Prerequisites: Junior level standing or consent of the instructor. This course will cover the principles of finance as they specifically apply to health services delivery. Topics will include the unique mechanisms used to finance health care services in the United States, cash-flow management, budgeting, pricing strategies, time-value analysis, risk and return analysis, debt and equity financing, and related issues. 3 lecture hours.

**◆HCMG 411 Human Resources Management in Health Care Organizations** **3 hrs (Sem I, II)**

Prerequisites: Junior level standing or consent of the instructor. This course will address the concepts and principles surrounding the human resources management (HRM) function in a health services delivery environment. The course will be organized around the major HRM activities; that is, the acquisition, maintenance, retention, and separation of health care personnel necessary to support a viable health care delivery system. Topics covered to support this organizational arrangement include health personnel categories, legal and regulatory issues, job analysis and design, position descriptions, recruitment and selection, compensation and benefits, performance evaluations, training and education, discipline, as well as union relations. 3 lecture hours.

**◆HCMG 421 Health Care Policy<sup>S</sup>** **3 hrs (Sem I, II)**

Prerequisite: Junior level standing or consent of the instructor. This course will explore the U.S. political system and processes in general and its application to American health policies in particular. The health policy-making process will be analyzed including the role each institution of government plays in the formulation, implementation, evaluation, and modification of such policies. Topics will include the health determinants that inform public policy; the constitutional antecedents of health policy; the influence of political culture and political parties; legislative, executive, and judicial influences; the political market for health policies; the public policy-making process; as well as the public and private agencies that serve a role in health policy-making. 3 lecture hours.

**◆HCMG 436 Health Care Economics** **3 hrs (Sem I, II)**

Prerequisite: Junior level standing or consent of the instructor. The market forces that affect the provision of health care services in the U.S. will be analyzed. Concepts to be examined will include the production of health; output of the health care sector; the supply of, and demand for medical care and health insurance; the provider payment system; the labor and provider markets; competition and managed care; the economics of Medicare, Medicaid, and universal insurance; externalities, and related economic issues. 3 lecture hours.

**◆HCMG 451 Strategic Management in Health Care Organizations<sup>W</sup>** **3 hrs (Sem I, II)**

Prerequisite: Junior level standing or consent of the instructor. This course will cover the concepts and principles associated with strategic management as well as the management of innovation and change in health care delivery systems. Topics will include the strategic management process, the development of competitive advantage, facilitation of the change process, and methods of fostering innovations in the provision of health services. 3 lecture hours.

**◆HCMG 490 Capstone Experience/Internship, Health Care Management** **3 hrs (Sem I, II)**

Prerequisite: Juni or level standing or consent of the instructor. The capstone/internship experience provides students an opportunity to gain valuable insight and understanding of current topics while they participate in a supervised experience in managerial functions within a selected health care organization. It is a course intended to synthesize and integrate the knowledge and skills of the major course work and the general and liberal education course work. Students will be required to complete a major research project aimed at addressing a philosophic, social, political, economic, or historical problem connected to health care management. Activities in the course will include a major research paper and an oral presentation based on significant research and project results. These activities will be opportunities for students to display the content knowledge, research skills, critical thinking, affective learning, and presentation skills needed to be life-long learners. 10 lecture/internship hours.

## Health Information Management

### **§HIMT 100 Introduction to Health Information Management** 3 hrs (Sem I)

Prerequisite: Acceptance to the Health Information Management Program. Introduces philosophy and ethical relationship of records. Reviews health care delivery system, analysis, organization and responsibilities of medical staff, numbering and filing systems, registers and accreditation standards. 2 lecture hours, 3 laboratory hours.

### **§HIMT 110 Medical Terminology for Allied Health** 3 hrs (Sem I, II)

Prerequisites: READ 011, ENGL 009, MATH 009, or SAT Reading score of 420 and SAT Writing score of 380 or greater, or appropriate placement scores. This course is designed to acquaint students with the specialized language of medicine by focusing on the precise communication required by practitioners in medicine (i.e., health information managers, physical therapists, nurses, surgical technologists, occupational therapists, respiratory care practitioners, dental hygienists, doctors, etc.) and related fields. After memorizing the word elements (prefixes, suffixes, and combining forms), and being taught the correlation between word elements, abbreviations and symbols with the basic anatomy, physiology and disease processes of the human body, students will be able to quickly recognize medical word meanings and understand medical reports. *This course is a transferIN course.* 3 lecture hours.

### **HIMT 121 Health Care Statistics** 2 hrs (Sem II)

Prerequisites: HIMT 100 and 110. Emphasizes acquiring basic knowledge and skills in health statistics, health data systems and IRB (institutional review board). 1 lecture hour, 3 laboratory hours.

### **HIMT 130 Medicolegal Aspects of Health Records** 2 hrs (Sem II)

Prerequisites: HIMT 100 and 110. Discusses concepts and principles of laws, discusses concepts and principles of ethics, health record as a legal document, confidential communication, consents, authorization release of information, privacy and security, and current trends in health legislation. 2 lecture hours.

### **HIMT 190 Professional Practice I** 3 hrs (Summer II)

Prerequisites: HIMT 121 and 130. Designed to provide hands-on experience at an affiliate facility in admissions, filing/numbering systems, discharge analysis, health statistics, tumor registry and release of information. 135 practicum hours.

### **HIMT 200 Health Care Coding I** 4 hrs (Sem I)

Prerequisites: HIMT 190, LFSC 111, LFSC 111L, LFSC 112 and LFSC 112L. Continues study of health records with emphasis on nomenclature, coding and indexing, sequencing of diagnoses and procedures, DRG's and prospective payment system, emphasis on ICD-9-CM coding. 2 lecture hours, 6 laboratory hours.

### **HIMT 201 Medical Coding** 4 hrs (Sem II)

Prerequisites: A grade of C or better in or concurrent enrollment in HIMT 110, MGMT 240, OADM 230, ENGL 101, LFSC 111 and LFSC 111L. Nomenclature and classification systems used in health care facilities will be discussed with emphasis on procedures and guidelines for assigning ICD-9-CM codes to diseases, conditions and procedures. 2 lecture hours, 6 laboratory hours.

### **HIMT 204 Health Care Coding II** 4 hrs (Sem II)

Prerequisites: HIMT 200, 211, 212. Advanced sequencing of diagnosis and procedures, coding principles as they apply to coding for prospective payment, and HCPCS coding principles will be discussed with emphasis on CPT coding. Students will acquire hands-on experience with outpatient chart and computer coding, plus reimbursement methodology. Intensive 8-week course preceding HIMT 240. 3 lecture hours, 3 laboratory hours.

### **HIMT 206 Medical Transcription I** 3 hrs (Sem II)

Prerequisites: A grade of C or better in or concurrent enrollment in HIMT 110, COMP 202, OADM 230, ENGL 101, LFSC 111 and LFSC 111L. This is a self-paced course that introduces the various forms in a basic medical office. Emphasis is placed on letters, instruments, lab reports, pharmacology, transcription career, resumes, etc. Recommend that student be able to demonstrate correct English usage, applying the rules of proper grammar, punctuation and style, using correct spelling and logical sentence structure. 3 class hours.

### **HIMT 207 Medical Transcription II** 3 hrs (Sem II)

Prerequisites: A grade of C or better in or concurrent enrollment in HIMT 206, ACCT 100, and SPCH 143. The study of medical transcription with proficiency in using standard references, such as medical dictionaries and drug indexes. Utilizes taped dictation by doctors with emphasis on accuracy of the completed report (utilizing various software). 1 lecture hour, 6 laboratory hours.

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

**HIMT 211 Clinical Quality Management** **3 hrs (Sem I)**  
Prerequisite: HIMT 190. Emphasizes acquiring basic knowledge and skills in medical care evaluation, performance improvement techniques and research, utilization management, risk management, accreditation/licensure requirements, and corporate compliance. Also, emphasizes acquiring basic knowledge and skills in EHR (electronic health record) and PHR (personal health record). 2 lecture hours, 3 laboratory hours.

**HIMT 212 Pharmacology for Allied Health** **2 hrs (Sem I)**  
Prerequisites: HIMT 190. This course covers general information about pharmacology (abbreviations, terminology, regulation and control) and the specific information about the medications used in each of the body systems. Also introduces fundamentals of machine transcription, and working knowledge of surgical terms and laboratory work. 2 lecture hours.

**§HIMT 220 Reimbursement and Management Processes<sup>R/S</sup>** **4 hrs (Sem II)**  
Prerequisites: HIMT 200, 211, and 212. Intensive eight-week course preceding HIMT 240. Includes discussion and practice of governmental and commercial reimbursements, health information management, personnel supervision, professional relations, current trends, and employment situations for graduates. 4 lecture hours.

**HIMT 240 Professional Practice II<sup>W</sup>** **7 hrs (Sem II)**  
Prerequisites: HIMT 204 and 220. Allows students to practice theoretical knowledge and skills in an extended field experience. Students are placed in health record department of health care facility for 40 clinical education hours per week during the last seven weeks of the semester. 280 practicum hours.

**History**  
**§HIST 125 History of American Technology<sup>R</sup>** **3 hrs (Sem I, II)**  
Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course will examine the technological development of the modern world and especially emphasizes the United States. Emphasis will be given not only to the inventions themselves but the reasons why such technology was needed and what influence the technology has had on our society. Major topics examined will include power sources, railroads, the automobile, ships, aviation, communications and the development of military technology and tactics. 3 lecture hours.

**HIST 131 Survey of European History I** **3 hrs (Sem I)**  
A survey of European history up to 1600, the development of ancient civilizations, the rise and fall of ancient empires, the origin and growth of the Christian church, politics and civilization of the Middle Ages, the Renaissance and Reformation. 3 lecture hours.

**HIST 132 Survey of European History II** **3 hrs (Sem II)**  
A survey of European history dealing with Commercial Revolution; absolutism, the Enlightenment; the French Revolution; the industrial developments of the nineteenth and twentieth centuries; politics and wars of the twentieth century; and contemporary economics, social, and cultural change. 3 lecture hours.

**§HIST 139 American History I** **3 hrs (Sem I, II)**  
Prerequisites: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. The colonial period; causes and results of the American Revolution; the development of the federal system of government; the growth of democracy; early popular American culture; territorial expansion; slavery and its effects; sectionalism; causes and effects of the Civil War; Reconstruction, political and economic. *This course is a transferIN course.* 3 lecture hours.

**§HIST 140 American History II** **3 hrs (Sem I, II)**  
Prerequisites: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. Industrial growth of the nation and its effects, agrarian and urban discontent and attempts at reform, World War I, the Roaring Twenties, social and governmental changes of the thirties, World War II and its consequences, the growth of the federal government, social and political upheaval in the sixties and seventies, and the conservatism of the eighties. *This course is a transferIN course.* 3 lecture hours.

**§HIST 155 Survey of Architectural History<sup>R/W</sup>** **3 hrs (Sem I, II)**  
Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course presents a survey of architectural history including various significant works dating from prehistoric times to the present. Students are introduced to the effects of cultural influences on the use, structure, and aesthetics of specific architectural works as well as recognized periods of history. 3 lecture hours.

**HIST 164 Introduction to Afro-American History** **3 hrs (Sem I)**

A survey of the origins and history of the Afro-American culture in the Americas from 1400 to present. Topics include African Tribal Culture, Arabic, English, Dutch, and American slave trade, the culture of slavery, the Abolitionist movement, the Civil Rights movement of the 50's, 60's, and 70's, Black Liberationism, and Afro-American culture at the millennium. 3 lecture hours.

**HIST 230 Special Topics in History** **3 hrs (Sem I, II)**

A study of special topics in history. Different topics or internships will be selected each semester for in-depth studies by the student. 3 lecture hours.

**§HIST 232 Indiana History<sup>R/W</sup>** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A study of the geographical features; prehistoric and historic Indians; the French and British periods; the American Revolution; the territorial period; formation of the state; immigration; Indiana's part in the national wars; agricultural, commercial, and industrial development. 3 lecture hours.

**§HIST 235 World Civilization I<sup>R</sup>** **3 hrs (Sem I)**

Prerequisites: A grade of C or better in READ 011 and ENGL 009, or SAT Reading score of 420 and SAT Writing score of 380 or greater, or appropriate placement test scores. The development of early civilizations of the Eastern Hemisphere, the civilizations of Greece and Rome, the rise and growth of Christianity and Islam, early Oriental history, medieval Europe, the Renaissance and Reformation, power politics and diplomacy, the expansion of Europe and its effect on various civilizations, scientific and intellectual developments to 1650. 3 lecture hours.

**§HIST 236 World Civilization II<sup>R</sup>** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Seventeenth Century absolutism, science and economics, the Enlightenment and the French Revolution; Romanticism, the Industrial Revolution; revolutions of the nineteenth century; colonialism and imperialism and their effects on under-developed areas; the prelude to World War I and the war itself; twentieth century world politics and the cold war; independence movements in Africa and Asia; recent social and cultural developments. 3 lecture hours.

**HIST 240 The History of Vietnam** **3 hrs (Sem I, II)**

The course will examine the historical cultural, social and political factors influencing events throughout the history of Vietnam. Topics will include the cultural background of Indochina, Vietnamese nationalism, French colonial policy, emergence of HoChi Minh, Vietnamese communist movement, U.S. involvement in Vietnam and Vietnam since unification. 3 lecture hours.

**HIST 265 History of the People of Japan** **3 hrs (Sem II)**

The course will focus on a survey of the History and Culture of the Japanese people from the Yamato Period approximately 500 AD to the present. Topics will include Early Japan, Chinese Rivalries, the Shogunate Period, the Meiji Restoration, the Russo-Japanese Wars, World War II, and Japan in the Modern World. 3 lecture hours.

**Health**

**HLTH 101 Foundations of Health and Sports Medicine Professions** **3 hrs (Sem I)**

Designed to increase students' awareness and knowledge of health and sports medicine career opportunities, as well as the education and training required for these careers. Emphasis will also be placed upon fundamental health, sports medicine and related medical terminology, and technical information used as tools in the related career areas. The foundations and philosophy of these areas of professional preparation will also be emphasized. 3 lecture hours.

**§HLTH 201 Personal Health Science<sup>R/W</sup>** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Acquaints prospective teachers with basic personal health information and gives the student a basis for self-direction of health behavior. Emphasizes individual citizen and teacher responsibilities. Provides physiological and psychological basis for health attitudes and practices including drugs, family health, and other critical issues. 3 lecture hours.

**§HLTH 210 Community Health and Wellness<sup>R</sup>** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. An introduction to community health needs, resources, services and programs at the local, state, national and international levels; analysis of problems, consideration of solutions, and promotion of programs of prevention and wellness. 3 lecture hours.

**HLTH 211 First Aid** **2 hrs (Sem I, II)**

This course is designed to provide an introduction to basic first aid and emergency procedures. The American Red Cross Community First Aid and Safety course is emphasized, and represents the minimal guide-



lines for materials covered. Students who qualify will receive certifications in CPR and First Aid Basics. *This course is a transferIN course.* 2 class hours.

**HLTH 213 Advanced First Aid** **2 hrs (Sem I, II)**

Prerequisite: HLTH 211. Instruction in advanced first aid skills and cognitive knowledge are provided in this course. Professional Rescuer Cardiopulmonary Resuscitation skills are emphasized. Successful students will have the opportunity to become certified by the American Academy of Orthopaedic Surgeons in First Aid and Professional Rescuer CPR. 2 class hours, 1 laboratory hour.

**Horticulture Technology**

**HORT 100 Landscape Plants I** **3 hrs (Sem I)**

Identification, culture, and classification of important deciduous trees and shrubs; recognition of important plant characteristics for landscape use, and environmental factors affecting them. One hour of lecture is devoted to overview of the landscape horticulture industry. 3 lecture hours, 2 laboratory hours.

**HORT 105 Introduction to Landscape Horticulture** **3 hrs (Sem I)**

An introductory course in landscape horticulture. Emphasis will be on the study of growth and development, nomenclature, propagation, soils, and fertility related to trees, shrubs, flowers and turf. 3 lecture hours.

**HORT 130 Crop Pest Management** **3 hrs (Sem I)**

The identification of major insect, disease, and weed pests of agricultural crops, and the pesticide chemicals and application equipment for their control. 2 lecture hours, 2 laboratory hours.

**HORT 150 Pest Management** **3 hrs (Sem II)**

Identification of major insect, disease, and weed pests of ornamental shrubs, trees and turf, and the pesticide chemicals and application equipment for their control. 2 lecture hours, 2 laboratory hours.

**HORT 155 Lawn and Turf Management** **3 hrs (Sem II)**

Introduction to the identification, adaptability, selection and establishment of turf grasses for homes, institutions, golf courses, parks and playgrounds, estates, and factory sites. 2 lecture hours, 2 laboratory hours.

**HORT 160 Landscape Plants II** **3 hrs (Sem II)**

Identification, culture, and classification of important evergreen trees and shrubs, ground covers, and herbaceous plants; recognition of important plant characteristics for landscape use and the environmental factors affecting them. 2 lecture hours, 2 laboratory hours.

**HORT 165 Nursery and Garden Center Management** **3 hrs (Sem II)**

A study of the operation and management of capital and operating funds, plant materials, equipment, personnel and merchandising techniques required in nursery enterprises. 2 lecture hours, 3 laboratory hours.

**HORT 175 Applied Related Training** **3 hrs (Sem II)**

Eight weeks of practical experience with a nursery, garden center, greenhouse, golf course, or other closely related business during second half of spring semester. Time arranged. A minimum of 320 practicum hours is required.

**HORT 200 Landscape Maintenance** **3 hrs (Sem I)**

Prerequisites: HORT 150 and 165. Maintenance practices used to preserve and enhance the beauty of landscape design, including the relationship of landscape design to maintenance requirements. Application of plant protection chemicals to control insects, diseases and weeds, as well as growth stimulating chemicals. 3 lecture hours, 3 laboratory hours.

**HORT 205 Landscaping I** **3 hrs (Sem I)**

Prerequisite: HORT 100 or 160. Elementary principles of landscape drafting and elementary residential landscape planning. Emphasis on the selection of ornamental plants consistent with design and environmental requirements. 3 lecture hours, 3 laboratory hours.

**§HORT 255 Landscaping II<sup>R/W/S</sup>** **3 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and HORT 205. Design principles and landscaping in relation to institutions, businesses, and multiple residences. Includes interpretation of plans, specifications and contracts, and preparation of cost estimates. 3 lecture hours, 3 laboratory hours.

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

**HORT 270 Arboriculture** **3 hrs (Sem II)**

Prerequisites: HORT 100 and 160. This course focuses on the growth and care of shade trees, and the procedures and equipment involved in their maintenance. Existing industry standards as OSHA Safety, ANSI planting, pruning, fertilization, cabling, bracing, lightning protection will be covered. A computerized tree inventory will be made by each student. 2 lecture hours, 2 laboratory hours.

**Hotel and Motel Management**

**HOTL 120 Front Office Management** **3 hrs (Sem II)**

The principles required to organize, operate and manage a front office in a hotel or motel. Also included are night audit and financial considerations of the front office operations. Guest needs, salesmanship and procedures used in different types of operations are included. 3 lecture hours.

**HOTL 150 Housekeeping and Maintenance Management** **3 hrs (Sem II)**

Management principles applicable to duties and responsibilities of housekeeping and maintenance departments. Housekeeping topics include room management, linen control, laundry facilities and scheduling. Maintenance topics include upkeep of hotel plant, sanitation, energy and conservation. Also discusses supervision of employees relative to these departments. 3 lecture hours.

**HOTL 200 Hotel and Restaurant Food Operations** **6 hrs (Sem I)**

A laboratory and lecture course designed to give students hands-on experience in the food operations of the hotel and sit-down restaurant. The lecture will cover various styles of food service and delivery systems within the hotel and restaurant, from the fine dining room and coffee shop to room service and to-go orders. Interrelationships between the various departments will also be stressed. The hotel and restaurant banquet and catering department will be examined. Other areas of study include development of basic cooking techniques, equipment operation and maintenance, forecasting, recipe conversions, and management of quantity food preparation. 3 lecture hours, 6 laboratory hours.

**HOTL 210 Hotel Conventions and Marketing** **3 hrs (Sem I)**

A course emphasizing organizing, arranging and operating conventions, trade shows and concessions. Sales and marketing departments and their functions will be covered. Identification of the convention market and application of proper sales and marketing management techniques are included. 3 lecture hours.

**HOTL 230 Hospitality Budgeting, Forecasting, and Cost Controls** **3 hrs (Sem II)**

A course devoted to the financial considerations of the hotel/restaurant operation. A study of profit and loss, financial statements, revenue and cost analysis, audits, and basic hotel/restaurant accounting will be included. Uniform system of accounts, budgeting and forecasting of costs and revenues, and cost controls will be covered. 3 lecture hours.

**HOTL 240 Hospitality Security** **1 hr (Sem II)**

Corequisites: HOTL 241 and HOTL 242. This course is designed to make the student aware of the necessity of security in the revenue producing as well as the non-revenue producing areas of the hotel and restaurant. An emphasis will be placed on the security and safety of guests and their possessions. Other topics will include parking, swimming pools, recreation areas, and other public areas. 1 lecture hour.

**HOTL 241 Hospitality Customer Services** **1 hr (Sem II)**

Corequisites: HOTL 240 and HOTL 242. This course is designed to help students understand the importance of the interaction between hospitality employees and guests. Quality service standards, service audit systems, and customer/employee feedback systems will be discussed. 1 lecture hour.

**HOTL 242 Dining Room Management** **1 hr (Sem II)**

Corequisites: HOTL 240 and HOTL 241. This course is designed to provide food service management students a thorough knowledge of table service, dining room set-up, server stations, and wait-staff equipment. The qualities of a professional server and the creation of successful mise en place will be discussed. 1 lecture hour.

**Health Sciences, General**

**HSGN 102 Introduction to Health Careers** **2 hrs (Sem I)**

An introduction to assist students in selecting a career in health sciences. The course meets one evening per week for the semester. It consists of information on each of the health science careers offered at VU (Funeral Service Education, Health Information Management, both Associate Degree and Practical Nursing, Physical Therapist Assistant, Radiography, and Surgical Technology), as well as an overview of other health related careers. Content includes information regarding programs, laboratory experience, background and requirements for the curriculum, and employment opportunities in each career. Other aspects of the coursework include Universal Precautions, bioethical aspects of health care, professional responsibilities, and confidentiality issues. 2 lecture hours.

## **Homeland Security and Public Safety**

### **◆HSPS 305 Public Policy for Homeland Security and Public Safety 3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. This course is an intensive study of how public policy is developed in a modern pluralistic democracy. Topics such as the role of interest groups, social problems, entitlement programs and the process of resource allocation will be discussed. With more demands being made on government at all levels, how an issue becomes the focus of public policy will also be covered. The case study method will be used to examine programs ranging from the New Deal to Homeland Security. Significant time will also be spent looking at the history of grant-in-aid programs and evolution of current public policy initiative. Successful grant writing approaches and techniques will also be studied. 3 lecture hours.

### **◆HSPS 310 Homeland Security 3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. The purpose of this course in homeland security is to explore the boundaries of this 21st century national security mission by examining the threats, the actors, and the organizational structures and resources required to defend the American homeland. It will also focus on U.S. policies and programs to address the hazard posed by international and domestic terrorism. It will challenge the students to engage in a comprehensive analysis of what some have called the most important national security mission in the 21st century. 3 lecture hours.

### **◆HSPS 321 National Security Law 3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. National security as an area of U.S. policy and law has seen a major transformation since 9/11, especially within the context of homeland security in response to terrorism. This course will examine an array of legal topics that not only face the United States government in dealing with terrorism but also corporate America and the American people while keeping a careful balance between national security and civil liberties. Topics covered include diverse legal issues such as investigating terrorism and prosecuting terrorists (interrogation, torture, and extraordinary rendition), civil litigation (State Secrets Privilege), public access to national security information (Freedom of Information Act) and corporate issues (Critical Infrastructure Protection and Terrorism Risk Insurance). 3 lecture hours.

### **◆HSPS 340 Homeland Security and Public Safety Seminar 3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. This course will provide extensive and consolidated coverage in a discipline other than a student's associate degree area of concentration. Baccalaureate students will be required to select a discipline in which they wish to expand their knowledge and employability. The course will be a concentration of materials and knowledge at an accelerated level. Course content will contain both general and specific areas of content that would benefit graduates choosing an alternate career field. Capstone courses of study will include Conservation Law Enforcement, Law Enforcement, Emergency Medical Services, Fire Science and Safety Technology, Loss Prevention and Safety, and Paralegal. 3 lecture hours.

### **◆HSPS 360 Weapons of Mass Destruction 3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Nuclear, biological, and chemical weapons offer both terrorists and rogue states a powerful selection of tools to swing the correlation of forces in their direction. Understanding range and characteristics of these weapons, how they are most effectively employed, and potential impacts are critical to defending communities against them. Provides a detailed look at history, capabilities, and tactics and explores options available to both attacker and defender. 3 lecture hours.

### **◆HSPS 410 Research Methods 3 hrs (Sem I)**

Prerequisites: MATH 110 Statistics; *and* junior level standing or consent of the instructor. The objective of this course is to provide a foundation for the student to conduct successful applied research within the framework of the Homeland Security and Public Safety environment. The primary areas covered will be scientific methods of research design, principles of data collection, interpretation of research data and ethical concerns (avoidance of bias and prejudice) in survey battery instruments or procedures. Students will be required to develop a research project and present it to the class. 3 lecture hours.

### **◆HSPS 415 Introduction to Terrorism 3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. The course identifies the fundamental and underlying reasons why America is a target for terrorists as it compares and contrasts various domestic and international terrorist groups and their respective ideologies. In exploring these ideologies, the course will examine the historical basis for terrorist acts, the psychological, cultural, and sociological underpinnings of the goals and apparent motivations of the modern terrorist, the usability and validity of "profiles" of the typical terrorist, and the differences between the modern "active" terrorist organizations. In addition, the course will define the various government agencies that are involved in the War on Terrorism. 3 class hours.

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**◆HSPS 420 Crisis and Disaster Issues in Homeland Security and Public Safety 3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. Examination of specific public crises in order to prepare, respond to, and recover from them. Case analysis will be used to develop leadership and decision-making skills needed when a crisis occurs, whether the crisis is natural or the result of specific acts against a community, state, or the nation. Additional issues such as organizational structure and response training of personnel will be studied. Special emphasis will be placed on the development of critical thinking skills needed in an ever-changing world. 3 lecture hours.

**◆HSPS 425 Supervision/Management 3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. This course is designed to provide the student with an understanding of the fundamentals of supervision and management as it relates to the homeland security and public safety profession. Students will study the processes involved as well as the functions of each as they relate to the overall success of the organization. Among topics to be discussed are organizational applications, individual's behavior, communications within the organization and the skills necessary for successful grant writing. 3 lecture hours.

**◆HSPS 430 Social Deviance 3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. This course will examine behaviors and norms within a variety of human relations groups (i.e., public order, political, occupational, professional) which fail to conform to accepted social exceptions. Changes in social conditions often lead to disparities regarding what is considered acceptable behavior; therefore, this course will provide a unique platform for thoughtful and lively debates and discussions. 3 lecture hours.

**◆HSPS 470 Internship in Public Safety 3 hrs (Sem I, II, Summer)**

Prerequisite: Junior level standing. The internship will provide students with opportunities to learn from significant work or volunteer experiences in diverse public safety areas. The internship will focus on performing management or staff duties appropriate to the operation of the organizations served. A minimum of 200 practicum hours is required.

**◆HSPS 490 Capstone Experience, Homeland Security and Public Safety 3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. A course intended to synthesize and integrate the knowledge and skills of the major course work and the general and liberal education course work. Students will be required to complete a major research project aimed at addressing a philosophic, social, political, economic, or historical problem connected to homeland security and public safety. Activities in the course will include a major research paper and an oral presentation based on significant research and project results. These activities will be opportunities for students to display the content knowledge, research skills, critical thinking, affective learning, and presentation skills needed to be life-long learners. 3 lecture hours.

**Honors Humanities**

**§HUMH 221 Honors Humanities I<sup>R/W/S</sup> 3 hrs (Sem II)**

Prerequisite: Honors Program acceptance. A study of the major intellectual and cultural movements of the ancient world. Includes discussion of Greek, Roman, and Judeo-Christian civilizations, and addresses literature through Chaucer. 3 class hours.

**§HUMH 222 Honors Humanities II<sup>R/W/S</sup> 3 hrs (Sem I)**

Prerequisite: Honors Program acceptance. A study of the major intellectual and cultural movements of the Middle Ages, Renaissance, and Enlightenment periods. Includes literature from Dante through Moliere. 3 class hours.

**Humanities**

**HUMN 164 Introduction to Multicultural Studies 3 hrs (Sem I)**

This is an introductory course in the multicultural composition of the United States. The impact of and interaction between social institutions including the family, education, religion, economics, and government will receive attention. The development of prejudice and discrimination will be explored. Particular focus will be shown to cultural groups based on ethnicity and color. This course will prepare students to understand, appreciate, and work effectively with people who are different from themselves. It will also help students to value the multiple cultures from which they have come. 3 lecture hours.

**HUMN 200 Humanities 3 hrs (Arranged)**

Concentrated study of a special project to acquaint students with the place of humanities within the cultural milieu. Usually the project will involve field study and follow-up activities. Enrollment by permission of the Humanities/Social Science Division Dean. 3 class hours.

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**§HUMN 210 Introduction to Humanities I<sup>R/W/S</sup>** **3 hrs (Sem I)**  
Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A general education course designed to acquaint students with the broad and interrelated disciplines with the humanities. The content includes painting, sculpture, architecture, and drama. 3 class hours.

**§HUMN 211 Introduction to Humanities II<sup>R/W/S</sup>** **3 hrs (Sem II)**  
Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. HUMN 210 is not a prerequisite for HUMN 211. A general education course designed to acquaint students with the broad and interrelated disciplines within humanities. The content includes dance, literature, music, and film. 3 class hours.

**§HUMN 245 Cultural Diversity: Humanities<sup>R/W/S</sup>** **3 hrs (Sem I, II)**  
Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and ENGL 101. Utilizing a multi-disciplinary approach, this course will provide students with an opportunity to explore their own ethnic roots. In addition, it will increase their understanding of the main ethnic groups in the United States: Appalachians, Native Americans, Afro-Americans, Asian-Americans, Pacific Islanders, and Hispanics. The social and religious impact on the cultural integration of these groups will be introduced. Discussions on how these aspects of United States culture may affect international dialogues will also be included. 3 class hours.

#### **Insurance**

**INSR 210 Principles of Insurance** **3 hrs (Sem I)**  
Survey of important methods of handling personal risks for business and individuals. An analysis of life insurance, casualty, health, pension plans and social insurance. Problems of underwriting, rate computation, and programming. 3 lecture hours.

#### **International Trade**

**INTT 111 Introduction to International Business** **3 hrs (Sem I, II)**  
An overview of current world trade activities, practices, government aids, and barriers to trade. Economic, geographic, political and transportation aspects as well as cultural differences affecting trade are analyzed. Also, the necessary foundations for advanced courses in international traffic, documentation, finance, and marketing are examined. This course is opened to all majors. 3 lecture hours.

**INTT 112 Export and Import** **3 hrs (Sem II)**  
Prerequisite: INTT 111. The latest trends in the growing import and export area of traffic and transportation including foreign country regulations, methods of shipment, and shipping rates are examined. 3 lecture hours.

**INTT 215 International Traffic Management** **3 hrs (Sem I)**  
This course focuses on the various modes of international traffic and the advantages and disadvantages of each, including details for arriving at the best compromise between cost, reliability, risk and speed, while meeting government and financial requirements. Also the process of monitoring and controlling shipments is examined. 3 lecture hours.

**§INTT 220 International Finance and Documentation<sup>R/W/S</sup>** **3 hrs (Sem II)**  
Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and INTT 111. In this course, banking, foreign exchange, currency fluctuations, financing, credit, payments, and collections are examined. Documentation necessary in the conduct of foreign trade from the first inquiries through quotations, orders, banking, shipping, and customs will also be reviewed and analyzed. This course is for students who have had the first year of the International Business curriculum or for those with experience in foreign trade. 3 lecture hours.

#### **Journalism**

**JOUR 101 Print Media Advertising Lecture** **3 hrs (Sem I)**  
The study of advertising, including various forms of print media advertising with emphasis on newspaper advertising, as news and its role as a reflection of the marketplace. The course will include a survey of print media advertising history from colonial times to the present, a study of print media advertising ethics and law, and a consideration of the role of print media advertising as a marketing function coordinated with other media and creative strategies. The course will also study the various techniques of print media advertising, including sales, copywriting, graphics, layout, design, and production of print media advertising with emphasis on newspaper advertising. There also will be exercises in planning and executing newspaper advertising campaigns. 3 class hours.

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**JOUR 102 Print Advertising Laboratory** **1 hr (Sem II)**

In this laboratory extension of the lecture course JOUR 101, students become staff members of *The Trailblazer*, the University's weekly student newspaper, and, as such, apply the basic principles and techniques of selling, layout, and production of advertising for publication. Students will use the multi-unit desktop computer publishing system extensively. 10 laboratory hours.

**JOUR 110 News Reporting** **3 hrs (Sem I)**

An introduction to reporting and news and feature story writing through the study of the elements of news, newsgathering, news story structures, reporting techniques and problems, and the fundamentals of news writing. 3 class hours.

**JOUR 111 News Reporting Laboratory** **2 hrs (Sem I)**

In this laboratory extension of the lecture course JOUR 110, students become staff members of *The Trailblazer*, the University's weekly student newspaper, and, as such, they apply the basic principles and techniques of reporting and writing news for publication. The laboratory is equipped with a multi-unit desktop computer publishing system. 20 laboratory hours.

**JOUR 112 Editing** **3 hrs (Sem II)**

Prerequisite: JOUR 110. A study of editing (copyreading) materials intended for newspaper publication, headline-writing, newspaper page makeup (typography), the mechanical processes of printing, the layout and copyflow functions of the newsroom, and the problems and responsibilities of the news editor. 3 class hours.

**JOUR 115 Editing Laboratory** **2 hrs (Sem II)**

In this laboratory extension of the lecture course JOUR 112, students continue as (or become) staff members of *The Trailblazer* and apply the basic principles and techniques of copyreading (editing) stories destined for publication. Further, students practice the rudiments of writing headlines, designing newspaper pages, and sizing photographs for publication. Editing laboratory also includes on-the-job problem solving, or judgment making, in journalism, such as determining the relative significance of prepared or potential news stories. The laboratory is equipped with a multi-unit desktop computer publishing system. 20 laboratory hours.

**JOUR 203 Advanced Print Advertising Laboratory I** **1 hr (Sem I)**

Prerequisites: JOUR 101 and 102. Students in this laboratory resume their role as staff members of *The Trailblazer* and are engaged in extensive experiences in newspaper advertising production. In this laboratory, students may assume the responsibilities of managing a newspaper advertising department and staff. 10 laboratory hours.

**JOUR 204 Advanced Print Advertising Laboratory II** **1 hr (Sem II)**

Prerequisites: JOUR 101 and 203. This course is an extension of JOUR 203. 10 laboratory hours.

**JOUR 213 Communications Law** **3 hrs (Sem I)**

This course examines the principles of civil and criminal libel, including detailed attention to recent U.S. Supreme Court pronouncements on the latitude of the press in reporting and commenting. Also treated are privilege and contempt, fair comment and criticism, public meetings and public records, "shield laws," and the right of privacy. 3 class hours.

**JOUR 214 Advanced Journalism Laboratory I** **2 hrs (Sem I)**

Prerequisites: JOUR 111 and 115. Students in JOUR 214 resume their roles as staff members of *The Trailblazer* and are engaged in intensive experiences in reporting and writing news, the feature and human-interest story, and the interpretative/investigative story; in all aspects of copy reading (editing), and in formulating and writing editorials (opinion pieces) and columns. Opportunities in newspaper news-editorial production and personnel management are abundant. The laboratory is equipped with a multi-unit desktop computer publishing system. 20 laboratory hours.

**§JOUR 216 Mass Communications<sup>R/W/S</sup>** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. An introduction to the media of mass communication -- the roles, characteristics, interactions, and significant and timely problems of newspapers, radio, television, magazines, and films. Lectures also deal with basic theories of communication and mass communication, the major developments in the evolution of the mass media, and the nature of press freedom and its condition in different areas of the world. *This course is a transferIN course.* 3 class hours.

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**JOUR 217 Advanced Journalism Laboratory II** **2 hrs (Sem II)**  
Prerequisites: JOUR 111, 115, and 214. This course is a continuation of JOUR 214. 20 laboratory hours.

#### **Laser and Electro-Optics Technology**

**LASR 230 Optical Metrology and Holography** **4 hrs (Sem II)**  
Prerequisite: LASR 235. Metrology topics include interferometry, distance measurement, and spectroscopy and fiber optic sensors. Concepts of holography and the making of display holograms, holographic interferograms, and holographic optical elements with extensive laboratory participation. 3 lecture hours, 3 laboratory hours.

**LASR 235 Introduction to Optics** **3 hrs (Sem I)**  
Prerequisite: MATH 101 or 102. Introduction to refraction and reflection, prisms, lenses, mirrors, aberrations, gradient-index, optical waveguides, optical systems, and opto-mechanical systems. 2 lecture hours, 4 laboratory hours.

**LASR 240 Introduction to Lasers** **3 hrs (Sem I)**  
A study of elements of a laser, operation of a helium neon gas laser, laser physics, optical cavities, properties of laser light and a survey of laser systems. 2 lecture hours, 4 laboratory hours.

**§LASR 290 Laser Applications<sup>R/W/S</sup>** **4 hrs (Sem II)**  
Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and LASR 240. A survey of applied laser systems and related electro-optical instrumentation. Topics include fiber optics, semiconductor lasers, medical applications of lasers, laser material processing, and laser output characterization. 3 lecture hours, 3 laboratory hours.

**LASR 295 Cooperative Work Experience** **3 hrs (Sem I, II and Summer)**  
Open to Laser and Electro-Optics majors. Extensive practical work experience is gained through employment in industries using Laser and Electro-Optics equipment. Performance of students is evaluated by employer and Cooperative Program Coordinator. A minimum of 120 hours of on-the-job training is required.

#### **Law Enforcement, Conservation**

**LAWC 101 Conservation Enforcement I** **3 hrs (Sem I)**  
The purpose of this course is to present an overview of day-to-day experience in the field of conservation enforcement as it pertains to the officer delegated this responsibility. How this particular law enforcement discipline integrates with the criminal justice system will be studied. 3 lecture hours.

**LAWC 160 Plant and Animal Management** **3 hrs (Sem II)**  
A general overview of plant and animal conservation with emphasis on the identification of North American representative species. The course will be directed toward the needs of the conservation field officer. 3 lecture hours.

**LAWC 200 Fish Management** **3 hrs (Sem I)**  
Orientation will be directed toward the conservation officer's understanding of fish management principles. The course direction will include fish habitat management, life history information and techniques necessary to maintain, deter, or enhance populations of fish in the aquatic environment. 3 lecture hours.

**§LAWC 250 Conservation Enforcement II<sup>R/W</sup>** **3 hrs (Sem II)**  
Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course deals with the specific day-to-day problems of enforcement of conservation laws. Thought will be given to the judicial process as it pertains to the conservation law violator. Arrests, search and seizures, as well as case preparation will be discussed and reviewed. Specific problems of field enforcement and encounters will be studied and discussed. 3 lecture hours.

**LAWC 255 Wildlife Management** **3 hrs (Sem II)**  
Prerequisite: LAW 160. Orientation will be directed toward the conservation officer's understanding of wildlife management principles. The course direction will include animal habitat management, life history information and techniques necessary to maintain, deter, or enhance population of game or non-game species. 3 lecture hours.

**LAWC 270 Internship in Conservation Law Enforcement** **3 hrs (Summer)**  
Prerequisites: Minimum of 2.5 cumulative GPA; a conservation law enforcement major; and completion of 30 credit hours. Ten interested and qualified students will have the opportunity to serve an internship with the Indiana Department of Natural Resources, Enforcement Division. This internship will be available in the summer only. Minimum of 120 practicum hours.

## Law Enforcement

### **LAWE 100 Survey of Criminal Justice** 3 hrs (Sem I, II)

This course will study the history, role, development, philosophy, and Constitutional aspects of the United States criminal justice system. The course will explore the various segments of the criminal justice system, their interrelationship, function, and responsibility. *This course is a transferIN course.* 3 lecture hours.

### **LAWE 106 Introduction to Traffic Control** 3 hrs (Sem I, II)

The course is designed to deal with the many aspects of traffic administration and control. Topics to be discussed are traffic law and its impact as a control method, driver licensing as a control device, the operation of a local traffic control system, accident causation and investigation, the identification and analysis of traffic problems, traffic safety coordination, and the use of selective enforcement as a method of traffic control. 3 lecture hours.

### **LAWE 150 Introduction to Criminology** 3 hrs (Sem II)

Introduction to the phenomena of crime and delinquency, to the types of offenses and offenders, to the basic units of the American Criminal Justice System, and to the role of law enforcement in prevention and control of deviant behavior. 3 lecture hours.

### **LAWE 155 Substantive Criminal Law** 3 hrs (Sem II)

Study of substantive criminal law with consideration given to constitutional limitations upon legislative power to create and define criminal offenses. 3 lecture hours.

### **LAWE 160 Criminal Investigation** 3 hrs (Sem II)

Fundamentals of criminal investigation, theory and history; crime scene to courtroom with emphasis on techniques appropriate to specific crimes. 3 lecture hours.

### **LAWE 200 Criminalistics I** 3 hrs (Sem I)

Basic theories in evidence collection, transportation, identification, processing and initiating the chain of custody. Laboratory provides experience in fundamental techniques and advanced methods in criminal evidence processing, including fingerprints, firearms identification, casts and molds, crime scene search, and photography. 2 lecture hours, 2 laboratory hours.

### **LAWE 205 Procedural Criminal Law<sup>S</sup>** 3 hrs (Sem I)

Study will be made of the constitutional framework controlling governmental practices and procedures as they operate upon the citizen in such areas as arrest, search and seizure, interrogation, etc. Consideration will be given to consequences of governmental overreaching. 3 lecture hours.

### **§LAWE 210 Police Operations and Community Relations<sup>R</sup>** 3 hrs (Sem I)

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Administration of police line and support operations, including patrol as basic operation of police function, investigation of delinquent and criminal offenders, traffic control, intelligence and other special operational units. Manpower distribution, analysis of operations, enforcement policy, operations during civil disorders and disasters. The role of the police officer in achieving and maintaining public support, human relations, public information, relationship with violators and complainants. 3 lecture hours.

### **LAWE 215 Police Administration and Organization** 3 hrs (Sem II)

Introduction to the basic principles of law enforcement administration and organizational structure, their functions and activities, records, communications, public relations, personnel and training, policy formation, planning, research, inspection, and control. Principles of command and supervision in personnel management of police organizations, evaluation and promotion, discipline training, employee welfare, problem solving, and leadership. 3 lecture hours.

### **LAWE 225 Introduction to Forensic Science<sup>W</sup>** 3 hrs (Sem I, II)

*Open only to Distance Education students enrolled in the Law Enforcement Studies Concentration.* This course is an overview of the following aspects and the origins of criminalistics as related to the crime scene and its investigation. Included will be laboratory procedures and capabilities; crime scene searching and sketching; photography; firearms and toolmark identification; fingerprints; shoe and tire impressions; headlamp examination; arson; microanalysis of trace evidence such as glass, hairs, fibers, paint, and explosives; drugs and toxicological analysis; serology; instrumentation; document examination; preservation of evidence; and the importance of forensic science in the courtroom. The course will emphasize the newest techniques and equipment available. 3 lecture hours.

### **LAWE 250 Juvenile Delinquency** 3 hrs (Sem II)

Overview of the types and causes of juvenile delinquency and youthful offenders; emphasis on the role of police under state and federal laws and court systems and on handling of delinquents, the prevention and deterrence. 3 lecture hours.



**LAWE 260 Criminalistics II<sup>W</sup>** **3 hrs (Sem II)**  
Advanced techniques in evidence processing and theories used in laboratory methods coupled with practical crime laboratory situations. Includes evidence processing in the area of microanalysis, toxicology, drug analysis, serology, arson and explosives, hair and fibers, questioned documents and related testimony in court. Term project or paper may be required of all students. 2 lecture hours, 2 laboratory hours.

**LAWE 270 Internship in Law Enforcement** **4 hrs (Sem I, II)**  
Prerequisite: Minimum of 2.5 cumulative GPA; a law enforcement major; and completion of 30 credit hours. Internship for interested and qualified law enforcement majors with a local police agency or one where they may seek employment. Supervised by Law Enforcement Department Chair or his designate. May be served on weekends during the semester or during the summer. Minimum of 200 practicum hours.

**LAWE 275 Practicum in Law Enforcement** **3 hrs (Sem I, II)**  
Students in the Law Enforcement Studies Concentration will be required to observe a criminal justice agency or a combination of agencies (law enforcement, corrections, courts, etc.). Upon completion of the required hours, students will be required to write a paper related to their experiences or observations according to the guidelines established by the coordinator of the practicum. The practicum will be supervised by the Law Enforcement Department chair or designate. A minimum of 150 practicum hours is required.

### Life Science

**§LFSC 100 Human Biology** **4 hrs (Sem I, II)**  
Prerequisites: Students must qualify for READ 011, MATH 011, *and* ENGL 101. Survey of structure and function of body systems. Emphasis on health, nutrition and disease. Designed for non-majors. *This course is a transferIN course.* 3 lecture hours, 2 laboratory hours.

**§LFSC 101 Plant and Animal Biology** **4 hrs (Sem II)**  
Prerequisites: Students must qualify for READ 011, MATH 011, *and* ENGL 101. Plant and animal interrelationships involving identification and classification. Significance of plants and animals to environment and ultimately to man. *This course is a transferIN course.* 3 lecture hours, 2 laboratory hours.

**§LFSC 105 Principles of Life Science I** **3 hrs (Sem I, II)**  
Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores; a grade of C or better in MATH 101, or a CPTS EA score of 74 or greater; and a grade of C or better in or concurrent enrollment in CHEM 105 and CHEM 105L. Corequisite: LFS C 105L. Integrated approach to study of living organisms including genetics, cytology, respiration, photosynthesis, and evolutionary principles. Required of agricultural, life science, and medical science majors. *This course is a transferIN course.* 3 lecture hours.

**§LFSC 105L Principles of Life Science Laboratory I** **1 hr (Sem I, II)**  
Corequisite: LFSC 105. Explores principles of LFSC 105. *This course is a transferIN course.* 3 laboratory hours.

**§LFSC 106 Principles of Life Science II<sup>R</sup>** **3 hrs (Sem I, II)**  
Prerequisite: A grade of C or better in LFSC 105. Corequisite: LFSC 106L. Survey of living organism kingdoms, plant morphology and physiology, development, ecological relationships, and animal morphology and physiology. *This course is a transferIN course.* 3 lecture hours.

**§LFSC 106L Principles of Life Science Laboratory II** **1 hr (Sem I, II)**  
Corequisite: LFSC 106. Explores principles of LFSC 106. *This course is a transferIN course.* 3 laboratory hours.

**§LFSC 107 Essentials of Human Anatomy and Physiology** **3 hrs (Sem I)**  
Prerequisites: Students must qualify for MATH 012 and ENGL 101; and complete READ 011 with a grade of C or better if required. Corequisite: LFSC 107L. The study of basic human body structure and function. Emphasis on interdependence of systems and contributions of each system to the maintenance of a healthy body. Intended primarily for students in the Practical Nursing and Emergency Medical Services programs, the Biomedical Technician Concentration of Electronics Technology program, and the Funeral Service program. 3 lecture hours.

**LFSC 107L Essentials of Human Anatomy and Physiology Laboratory** **1 hr (Sem I)**  
Corequisite: LFSC 107. Examines the principles of LFSC 107 through lab exercises, models, slides, and animal dissections. 2 laboratory hours.

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**§LFSC 108 Principles of Human Anatomy and Physiology I** **3 hrs (Sem I)**

Prerequisites: Acceptance into the Health Information Management/Coding Certificate, or Health Information Management/Transcription Certificate programs; *and* a grade of *C* or better in READ 011 and ENGL 011, or SAT Reading score of 420 and SAT Writing score of 380 or greater, or appropriate placement test scores; and a grade of *C* or better in MATH 011, or a CPTS EA score of 40 or greater, or a CPTS AR score of 64 or greater and a CPTS EA score of 32 or greater. This course is a study of human anatomy and physiology through a systems approach with an emphasis on homeostatic mechanisms. Units include cells, tissues, integumentary, skeletal, muscular, nervous and endocrine systems. This course assumes the student will have adequate computer skills and access to the Internet and recommended hardware. LFSC 108 is intended primarily for Health Information Management certificate programs and does not satisfy the Laboratory Science general education requirement for the A.S. or A.A. degrees. Students not in the named certificate programs should consult their advisor as to the appropriateness of LFSC 108 as an Anatomy and Physiology course in their major. *Internet Delivery Only.* 3 class hours.

**LFSC 109 Principles of Human Anatomy and Physiology II** **3 hrs (Sem II)**

Prerequisites: A grade of *C* or better in LFSC 108. This course is a continuation of the study of human anatomy and physiology. Units of study include circulatory, respiratory, immune, digestive, urinary and reproductive systems. This course assumes the student will have adequate computer skills and access to the Internet and recommended hardware. LFSC 109 is intended primarily for Health Information Management certificate programs and does not satisfy the general education laboratory science requirement for the A.S. or A.A. degrees. Students not in the named certificate programs should consult their advisor as to the appropriateness of LFSC 109 as an anatomy and physiology course in their major. *Internet Delivery Only.* 3 class hours.

**§LFSC 111 Anatomy and Physiology I** **2 hrs (Sem I, II)**

Prerequisites: A grade of *C* or better in READ 011 and ENGL 011, or SAT Reading score of 420 and SAT Writing score of 380 or greater, or appropriate placement test scores; and a grade of *C* or better in MATH 011, or a CPTS EA score of 40 or greater, or a CPTS EA score of 32 or greater and a CPTS AR score of 64 or greater. Corequisite: LFSC 111L. Successful completion of high school biology and chemistry are strongly recommended. Introduction to human body structure and function. Cells, tissues, integument, skeletal system, muscular system, nervous system, general and special senses. 2 lecture hours.

**§LFSC 111L Anatomy and Physiology Laboratory I** **1 hr (Sem I, II)**

Corequisite: LFSC 111. Examines principles of LFSC 111 through lab exercises, models, slides, animal dissection, and computer simulations. 3 laboratory hours.

**LFSC 112 Anatomy and Physiology II** **2 hrs (Sem I, II)**

Prerequisite: A grade of *C* or better in LFSC 111. Corequisite: LFSC 112L. Blood, cardiovascular system, respiratory system, digestive system, urinary system, endocrine system, male and female reproductive systems, and basic embryology. 2 lecture hours.

**LFSC 112L Anatomy and Physiology Laboratory II** **1 hr (Sem I, II)**

Corequisite: LFSC 112. Examines principles of LFSC 112 through lab exercises, models, slides, animal dissection, and computer simulations. 3 laboratory hours.

**§LFSC 200 Heredity and Society<sup>R/W/S</sup>** **3 hrs (Sem II)**

Prerequisites: A grade of *C* or better in READ 011 and ENGL 101, or SAT Reading score of 420 and SAT Writing score of 530 or greater, or appropriate placement test scores. One semester of any college level life science course is recommended. Introduction to principles of human heredity and genetic expression. Genetic diseases, history and use of prenatal diagnostic technologies and ethical dilemmas posed by these advances. 3 lecture hours.

**§LFSC 201 Issues in Biology<sup>R/S</sup>** **3 hrs (Sem I)**

Prerequisites: A grade of *C* or better in READ 011 and ENGL 101, or SAT Reading score of 420 and SAT Writing score of 530 or greater, or appropriate placement test scores. (*One semester of any college level life science course is recommended.*) Examination of current social issues influenced by biology. Emphasis may vary from year to year, but will include aspects of environmental pollution, world population growth, and biomedical advances. Panel and seminar format; emphasis on writing and literature research. 3 class hours.

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**LFSC 207 Anatomy and Physiology III** **3 hrs (Sem I)**

Prerequisites: A grade of C or better in LFSC 112 and LFSC 112L; and acceptance into the Surgical Assisting Program. This course is designed for the student with a background in anatomy and physiology. It is a further study into human systems, functions, and physiology with additional emphasis on medical applications and pathophysiology. Cells, tissues, integument, skeletal system, muscular system, nervous system and endocrine system will be studied. 3 lecture hours offered via the Internet.

**LFSC 209 Anatomy and Physiology IV** **3 hrs (Sem II)**

Prerequisites: Acceptance into the Surgical Assisting Program, and a grade of C or better in LFSC 207. This course is a continuation of Anatomy and Physiology III and will include the cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as pregnancy and embryology. 3 lecture hours offered via the Internet.

**LFSC 210 Microbiology** **2 hrs (Sem I, II)**

Prerequisites: A grade of C or better in CHEM 101 and LFSC 107, or LFSC 111 and LFSC 112. Corequisite: LFSC 210L. Introduction to the nature and activities of microorganisms relating to human health and disease. *Pre-Health Information Administration majors (4660) only may complete additional assignments and use this course to satisfy the Reading, Writing, and Speaking Intensive requirements. (See course instructor for details.) This course is a transferIN course.* 2 lecture hours.

**LFSC 210L Microbiology Laboratory** **2 hrs (Sem I, II)**

Corequisite: LFSC 210. Explores the principles of LFSC 210. Emphasis on the safe handling, identification, and control of microorganisms. *This course is a transferIN course.* 4 laboratory hours.

**LFSC 211 Human Systems I: Anatomy and Physiology** **3 hrs (Sem I)**

Prerequisites: LFSC 105 and CHEM 105/106. Corequisite: LFSC 211L; and enrollment in CHEM 215 is recommended. A study of human function, emphasizing physiology of human tissues and systems. Relevant aspects of anatomy and histology are also included. Application of elements of anatomy and physiology to medical practices provides a rationale for prediction of symptoms and treatment of diseases. Topics include histophysiology of cells and tissues, and the anatomy and physiology of the integumentary, skeletal, muscular, and nervous system. *Pre-Physical Therapy majors (4062) only may complete additional assignments and use this course to satisfy the Speaking Intensive requirement. (See course instructor for details.)* 3 lecture hours.

**LFSC 211L Human Systems I: Anatomy and Physiology Laboratory** **1 hr (Sem I)**

Corequisite: LFSC 211. Examines the principles of LFSC 211. 3 laboratory hours.

**§LFSC 212 Human Systems II: Anatomy and Physiology<sup>R</sup>** **3 hrs (Sem II)**

Prerequisites: A grade of C or better in LFSC 211. Corequisite: LFSC 212L. Topics covered include anatomy and physiology of the cardiovascular, immune, respiratory, endocrine, digestive, urinary, reproductive systems, and embryology. 3 lecture hours.

**§LFSC 212L Human Systems II: Anatomy and Physiology Laboratory** **1 hr (Sem II)**

Corequisite: LFSC 212. Examines the principles of LFSC 212. 3 laboratory hours.

**§LFSC 220 Molecular Biology<sup>R/W/S</sup>** **3 hrs (Sem II)**

Prerequisites: A grade of C or better in LFSC 105, LFSC 106, CHEM 105 and CHEM 106. Structure and function of important biological molecules with emphasis on the nucleic acids and proteins. DNA structure, replication, mutation, repair, transcription, translation, transposition, and gene regulation are considered. Introduces plasmids, bacteriophages and the principles of recombinant DNA technology. 3 lecture hours.

**§LFSC 220L Laboratory in Molecular Biology** **2 hrs (Sem II)**

Prerequisite: LFSC 105, LFSC 106, CHEM 105 and CHEM 106. May be taken independently of LFSC 220. Lab work includes experiments that are useful for scientists who are just beginning to move into the molecular biology field. Experiments introduce the basic skills of molecular biology, microbiological techniques, restriction digestion of DNA, gel electrophoresis of both DNA and proteins, and genetic engineering. There exists the possibility of visitation of and performing research in other labs outside of the university. 4 laboratory hours.

**§LFSC 230 General Microbiology<sup>R</sup>** **2 hrs (Sem I)**

Prerequisites: A grade of C or better in one semester of life science (LFSC 105). Corequisite: LFSC 230L. Introduction to nature and activities of microorganisms. Emphasis on role of microorganisms in nature, their genetics, and metabolism; detailed consideration of immune system. Designed for majors and pre-professional majors. 2 lecture hours.

**§LFSC 230L General Microbiology Laboratory** **2 hrs (Sem I)**

Corequisite: LFSC 230. Explores principles of LFSC 230. Emphasis on microscope techniques, culturing, identification, and control of microorganisms. 4 laboratory hours.

**◆LFSC 308 Genetics<sup>R</sup>****4 hrs (Sem II)**

Prerequisites: A grade of C or better in LFSC 105 and LFSC 105L; *and* junior level standing or consent of the instructor. Inheritance in populations, organisms, cells and viruses. Major concepts illustrated in lab using appropriate organisms. Research paper on a current topic in Genetics or in teaching methodologies is required. 3 lecture hours, 2 laboratory hours.

**◆LFSC 312 Pathophysiology****4 hrs (Sem II)**

Prerequisites: CHEM 101 and CHEM 101L; LFSC 111/112 and LFSC 111L/112L; LFSC 210 and LFSC 210L; *and* junior level standing or consent of the instructor. The underlying mechanisms of disease processes and how these mechanisms relate to the overt signs and symptoms of diseases. Mechanisms are approached by system beginning with the cellular level. Emphasis on normal homeostatic controlling mechanisms and how pathophysiological mechanisms disturb homeostasis and contribute to the disease state. 4 lecture hours.

**◆LFSC 318 Developmental Biology****3 hrs (Sem I)**

Prerequisites: LFSC 308; *and* junior level standing or consent of the instructor. Analysis of developmental processes that lead to the construction of whole organisms from single cells. Includes the principles of embryology and analysis of mutations affecting development. 3 lecture hours.

**◆LFSC 423 Ecology and Evolution****4 hrs (Sem I)**

Prerequisites: A grade of C or better in LFSC 106 and MATH 116; *and* junior level standing or consent of the instructor. The study of ecological processes and dynamics of populations, communities, and ecosystems; physical, physiological, behavioral, and population genetic factors regulating population and community structure; case studies, field studies, and simulation models of life history attributes, competition, predation, parasitism, and mutualism. Evolutionary principles of natural selection, taxonomy, adaptation, and speciation will be covered as well as evolution at the molecular, reproductive, and social levels. 3 lecture, 2 laboratory hours.

**Technical Life Science****LFST 101 Applied Anatomy and Physiology****6 hrs (Sem I, II)**

Consideration of the structure and function of the respiratory, cardiovascular, endocrine, nervous, and genitourinary systems as they apply to emergency medical care. Intended for students enrolled in the Emergency Medical Services program. Lecture and laboratory presented as part of EMT-Paramedic training according to U.S. Department of Transportation, National Highway Traffic Safety Administration National Standard Curriculum. *This course will not substitute for the sequence of LFSC 111, LFSC 111L, LFSC 112 and LFSC 112L in programs other than Emergency Medical Services.* 4 lecture hours, 4 laboratory hours.

**Literature****◆LITR 100 Introduction to Literature<sup>R/W</sup>****3 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. An introduction to literature and to three major genres: fiction, poetry, and drama. Emphasis is placed on the ability to read critically and gain an appreciation for literature. *This course is a transferIN course.* 3 lecture hours.

**◆LITR 210 Literature of the Old Testament<sup>R</sup>****3 hrs (Sem I)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course is designed to emphasize the literary content of the Old Testament, the contribution it has made to human development, its historical setting, and to give insight into the sociological, ethical, and theological implications of the Old Testament's writings. 3 lecture hours.

**◆LITR 211 Literature of the New Testament<sup>R</sup>****3 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course is designed to emphasize the writings of the New Testament so far as their literary structure is concerned and to show its impact on the social and ethical structure of the time along with the emergence of a new community in the world of that day. 3 lecture hours.

**◆LITR 220 Introduction to World Literature I<sup>R/W/S</sup>****3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and a grade of C or better in ENGL 101 or ENGL 112. A general education survey course designed to acquaint the student with the literary masterpieces and various literary types produced from Homer's time to Shakespeare's. The course includes a study of drama, poetry (with some attention to epic form as well as shorter narrative verse), and the philosophic essay. Combines practice in advanced expository writing with literary study. *This course is a transferIN course.* 3 class hours.

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◆ Any course identified with a ◆ requires junior level standing or consent of the instructor.

**§LITR 221 Introduction to World Literature II<sup>R/W/S</sup>** **3 hrs (Sem I, II)**  
Prerequisite: A grade of *C* or better in any one of the following: ENGL 101, ENGL 112, or LITR 220. A general education survey course designed to acquaint the student with selected major literary works and various literary types produced from the Jacobean period to the present. The course content includes work by the Eastern, Continental, British, and American authors. Instruction in research techniques and writing research papers is combined with literary study. To meet the requirements of a second writing course, students must complete LITR 220 and LITR 221 with at least a *C* average. *This course is a transferIN course.* 3 class hours.

**§LITR 222 American Literature I<sup>R</sup>** **3 hrs (Sem I)**  
Prerequisite: A grade of *C* or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A study of major American poets and prose writers, noting their relationship to contemporary English writers. The course emphasizes the early colonial, national, and sectional periods of literature. *This course is a transferIN course.* 3 class hours.

**§LITR 223 American Literature II<sup>R</sup>** **3 hrs (Sem II)**  
Prerequisite: A grade of *C* or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A study of the poets and prose writers of the so-called Second National Period of American Literature. The course also includes some of the present-day writers of poetry, prose, and drama. *This course is a transferIN course.* 3 class hours.

**§LITR 224 Survey of English Literature I<sup>R/W/S</sup>** **3 hrs (Sem I)**  
Prerequisite: A grade of *C* or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A study of major British poets and prose writers, beginning with *Beowulf* and ending with the eighteenth century. Emphasis will be given to the developing of genres of the period. 3 class hours.

**§LITR 225 Survey of English Literature II<sup>R/W/S</sup>** **3 hrs (Sem II)**  
Prerequisite: A grade of *C* or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A study of British poets and prose writers emphasizing the Romantic, Victorian, and modern periods. 3 class hours.

**§LITR 227 Introduction to World Fiction<sup>R/W/S</sup>** **3 hrs (Sem I)**  
Prerequisite: A grade of *C* or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A general education course designed to acquaint students with the fiction genre. The course examines fiction of various types and periods by Continental, Eastern, American and British authors. 3 class hours.

**§LITR 228 Introduction to World Poetry<sup>R/W</sup>** **3 hrs (Sem II)**  
Prerequisite: A grade of *C* or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A general education course intended to study poetry through the reading, discussion, and evaluation of poems of several periods and types. The poetry represented includes English, Irish, American, Russian, German, Scandinavian, French, Spanish, Portuguese, Latin, Hebrew, Greek, and Far Eastern. *This course is a transferIN course.* 3 class hours.

**§LITR 229 Introduction to World Drama<sup>R/W</sup>** **3 hrs (Sem II)**  
Prerequisite: A grade of *C* or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A general education course designed to acquaint students with the drama genre and the study of drama as literature. Examining various dramatic types, the course includes a study of Greek, British (Medieval to the present), Continental (including Russian), Eastern, and American authors. 3 class hours.

**§LITR 230 Contemporary Literature<sup>R/W/S</sup>** **3 hrs (Sem II)**  
Prerequisite: A grade of *C* or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course is designed for students who would like to gain an appreciation of current trends in American and British literature. Recent novels, short stories, and poetry are studied. 3 class hours.

**§LITR 240 Children's Literature<sup>R</sup>** **3 hrs (Sem I, II)**  
Prerequisite: A grade of *C* or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course is designed both for education majors who need to meet state requirements and for students who may wish to gain or regain appreciation for the best literature written for children. Classic and modern children's books, ranging from kindergarten to junior high level, will be read and discussed. *This course is a transferIN course.* 3 class hours.

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**§LITR 250 The Twentieth Century Mystery Novel<sup>R/S</sup>** **3 hrs (Sem I)**  
Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course is designed to introduce students to mystery and detective fiction. The class covers the early masters of suspense but concentrates on writers from the 1940's to the present. 3 lecture hours.

**LITR 270 Native American Literature** **3 hrs (Sem II)**  
This course is designed to introduce students to literature by and about Native Americans through a variety of literary genres, including storytelling, mythology, poetry, history, biography, contemporary novels and other short fiction. 3 lecture hours.

#### **Loss Prevention and Safety**

**LOSS 115 Principles of Loss Prevention** **3 hrs (Sem I)**  
An overview of the field of loss prevention. The course will discuss the history and role development of security, its applications and relationships to society. It will present a total picture of loss prevention including areas of administration, personnel, safety, and physical aspects of the field of loss prevention. 3 lecture hours.

**LOSS 155 Private Security Law** **3 hrs (Sem I)**  
In today's world of litigation it is very crucial that the security personnel of private industry have a working knowledge of the nature of law. The private security industry has suffered devastating losses as a result of lawsuits and punitive damages. Private security law is uniquely designed for the special needs of private security personnel. The course will address particular areas of law that affect private security focusing on torts, contracts, damages, negligence, authority, probable cause, arrest, search and seizure, use of force, interrogation, entrapment, alarms, deprivation of rights, etc. 3 lecture hours.

**LOSS 170 Security I** **3 hrs (Sem II)**  
This course will emphasize the identification and development of physical security objectives, policies, procedures and methods to reduce shrinkage from employee theft, shoplifting, and environmental design. 3 lecture hours.

**LOSS 205 Safety Issues in Loss Prevention** **3 hrs (Sem I)**  
This course will provide students with such topics as basic safety concepts and procedures in the work place, emergency preparedness plans (including executive protection), evacuation systems, explosions, hazard materials (Title III), fire prevention, severe weather problems, OSHA regulations, security checks to identify accident-producing physical conditions, and the management of safety programs. 3 lecture hours.

**LOSS 220 Risk Management** **3 hrs (Sem I)**  
An overview and evaluation of security problems and threats from within and outside the organization. A study of the methods of operation and motivations of employee crimes and of the outside criminal element in relation to these profit-draining crimes. Interpretation and application of loss prevention data and information will be viewed for the development of decision-making policies. 3 lecture hours.

**§LOSS 225 Security Management<sup>R/W/S</sup>** **3 hrs (Sem II)**  
Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. An overview of organizational, administrative and management practices of the security unit including such topics as decision-making, personnel, human relations, liability, planning, communicating, public relations, training, and budgeting practices. 3 lecture hours.

**LOSS 240 Security II** **3 hrs (Sem II)**  
This course will present a comprehensive analysis of the development and procedures necessary to protect the industrial premise and its employees from internal and external attacks and losses. Vital concerns such as executive protection, corporate espionage, terrorism and counter-terrorism, which are all parts of crisis management, white collar and economic crime and document security, will be discussed. 3 lecture hours.

**LOSS 270 Internship in Security** **4 hrs (Sem I, II, Summer)**  
Prerequisites: Minimum of 2.5 cumulative GPA; completion of 30 credit hours; and a Loss Prevention major. Students will be required to complete a minimum of 200 hours in an approved position in a security-related area. Students will gain first-hand experience in the security field. The on-the-job experience will be evaluated and the students' performance graded by the agency and the coordinator of the internship program. Minimum of 200 practicum hours.

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## Mathematics Education

### MAED 421 Teaching High School Mathematics

3 hrs (Sem II)

Prerequisites: A grade of C or better in MATH 311, 312, 321, 322, 411 and 412; *and* senior level standing or consent of the instructor. The materials, devices and methods of teaching mathematics in high schools. 3 lecture hours.

## Massage Therapy

### MASG 100 Massage Fundamentals

5 hrs (Sem I)

Prerequisites: Admission into the Massage Therapy Program; and concurrent enrollment in or completion of LFSC 111 and LFSC 111L with a C or better grade. Students will learn essential skills to safely and effectively perform therapeutic massage. An emphasis will be placed on developing proper body mechanics to reduce the incidence of injury or fatigue and cultivating professional practices and habits. An overview of and introduction to the study of professional therapeutic massage; students learn massage applications for relaxation, remediation of various pathologies and soft tissue conditions, stress reduction, and maintenance of general health. In addition, students learn assessment techniques, record keeping, communications and basic business skills. Professionalism and ethics will be stressed throughout. Principles of traditional European and contemporary Western massage will lay a foundation for the course of study in therapeutic massage. Other subjects studied will include: Chair massage, pregnancy massage, and sports massage. 2 lecture hours, 6 laboratory hours.

### MASG 110 Foundations of Professional Massage

2 hrs (Sem I)

Corequisite: MASG 100. This course discusses the foundations for professional behavior in relationships and business practice that are beyond reproach. Students will explore areas for consideration when establishing professional boundaries. Students will be expected to expand knowledge and practice of accountability for boundaries management, enhanced communication, fostering a sense of safety, and running professional practices. In this class, students will examine the relationship of the "Professional Code of Ethics" and "Standards of Practice" as set forth by the National Certification Board of Therapeutic Massage and Bodywork in relationship to the practice of therapeutic massage. 2 lecture hours.

### MASG 140 Clinical Education I

1 hr (Sem I)

Corequisites: MASG 100 and MASG 110. This clinical course is designed to reinforce and relate lecture/lab experiences to the clinical environment. Students practice clinical skills and further develop competence as a massage therapist. Requires close coordination between students, clinical supervisor and course coordinator. 2 clinical laboratory hours.

### MASG 210 Structure, Function, Movement and Assessment

5 hrs (Sem II)

Prerequisites: MASG 140; and concurrent enrollment in or completion of FNRL 285, LFSC 112, LFSC 112L and PHED 294 with C or better grades. Corequisites: MASG 232 and MASG 250. Through applying principles of kinesiology, anatomy & physiology, students begin to develop a sense of focus on enhancing and developing skills applicable to advanced assessment & practice of massage techniques. These approaches organize and integrate the body's relationship to gravity through manipulating soft tissue and correcting inappropriate patterns of movement. Assessment procedures are explored in depth. Multiple techniques are used to integrate theory and practice of massage with course work from the biological disciplines. Students will synthesize & deepen concepts gathered in previous courses. Modalities covered include: Touch for Health, myofascial release, and structural & functional approaches. 2 lecture hours, 6 laboratory hours.

### MASG 230 Asian Bodywork

3 hrs (Sem I)

Prerequisites: MASG 210 and MASG 250 or National Certification Board of Therapeutic Massage and Bodywork certification. Corequisite: MASG 240. The basis for theories of the mind/body interface will be drawn from recent scientific research. Oriental methods of body work (Shiatsu & Acupressure), based on the principles of Chinese medicine and the flow of energy (Chi) through the meridians and the geography of the acupressure meridians, will be examined in depth. Reflexology, Ayurvedic (Indian) and Energy Therapies, as well as Chakra systems, will be covered. 2 lecture hours, 3 laboratory hours.

### MASG 232 Clinical Education II

1 hr (Sem II)

Prerequisites: MASG 100, MASG 110 and MASG 140. Corequisites: MASG 210 and MASG 250. This course continues to relate and expand upon previous academic/clinical experiences. Clinical experience is designed to provide students with the opportunity to demonstrate knowledge and practical skills necessary for entry into the professional practice of massage. Requires close coordination between students, clinical supervisor and course coordinator. 2 clinical laboratory hours.

### MASG 240 Clinical Education III

1 hr (Sem I)

Prerequisite: MASG 232. Corequisites: MASG 230 and MASG 272. This course continues to relate and expand upon previous academic/clinical experiences. Students practice clinical skills and further develop competence as a massage therapist. Requires close coordination between students, clinical supervisor and course coordinator. 2 clinical laboratory hours.

**MASG 250 Career in Massage Therapy** **2 hrs (Sem II)**  
Prerequisites: MASG 100 and MASG 110. Corequisites: MASG 232 and MASG 210. This course covers translation of massage training into practice: becoming certified and/or licensed, joining professional organizations, building a clientele, creating and running a successful business and/or securing job placement. Students will investigate areas of interest in the field of therapeutic massage and prepare for the National Certification Examination in Massage Therapy. 2 lecture hours.

**MASG 260 Clinical Education IV** **1 hr (Sem II)**  
Prerequisites: MASG 210 and MASG 240. Corequisites: MASG 262 and MASG 264. This course continues to relate and expand upon previous academic/clinical experiences. Students practice clinical skills and further develop competence as a massage therapist. Requires close coordination between students, clinical supervisor and course coordinator. 2 clinical laboratory hours.

**MASG 262 Advanced Massage Techniques<sup>R/W/S</sup>** **3 hrs (Sem II)**  
Prerequisite: MASG 250 or National Certification Board of Therapeutic Massage and Bodywork certification. Corequisite: MASG 260. Treatment of the central musculature, connective tissues and visceral systems through the use of various techniques, including Craniosacral Therapy, Lymphatic Drainage, Sound Therapy, and Color Therapy. 2 lecture hours, 3 laboratory hours.

**MASG 264 Clinical Massage** **3 hrs (Sem II)**  
Prerequisite: MASG 250 or National Certification Board of Therapeutic Massage and Bodywork certification. Corequisite: MASG 260. Clinical Massage is designed to introduce aspects of massage associated with treatment or training centers. Topics in this course focus on massage for human performance, overuse injuries, myofascial treatment, lymph and edema movement, disease states, pre-natal and infant massage, billing and pharmacology issues. 2 lecture hours, 3 laboratory hours.

**MASG 272 Spa Management and Massage Modalities** **3 hrs (Sem I)**  
Prerequisites: MASG 210 and MASG 250 or National Certification Board of Therapeutic Massage and Bodywork certification. Corequisites: MASG 240. This course covers various spa enhancements that can be used to supplement the healing effects of massage, including paraffin treatments, hydrotherapy, aromatherapy and essential oils, hot stone massage, and other modalities. Indications and contraindications to treatments are emphasized. This course emphasizes the scope of practice for massage therapy in the spa setting. 2 lecture hours, 3 laboratory hours.

#### **Apprenticeship Mathematics**

**§MATA 101 Apprenticeship Mathematics I** **1 hr (Sem I)**  
Prerequisites: A grade of C or better in READ 009 and MATH 009, or open to other students with a CPT AR score of 35 or greater. This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students. This course covers a review of arithmetic applications including addition, subtraction, multiplication, and division of common fractions, mixed numbers, and decimals. Basic calculations of percentages, percents, and rates are also covered. 1 lecture hour.

**MATA 102 Apprenticeship Mathematics II** **1 hr (Sem II)**  
Prerequisite: A grade of C or better in MATA 101. This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students. This course covers linear measurement using English and Metric units of measure and development of basic algebraic and problem solving techniques. 1 lecture hour.

**MATA 103 Apprenticeship Mathematics III** **1 hr (Sem I)**  
Prerequisite: A grade of C or better in MATA 102. This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students. This course is a continuation of algebra skills development to include symbolism, signed numbers, algebraic operations of addition, subtraction, multiplication, division, powers, and roots. Students will solve algebraic equations using the principles of equality for subtraction, addition, and division. Students will also solve equations using the multiplication, root, and power principles of equality. Ratio and proportion as well as direct and inverse proportions will be covered. 1 lecture hour.

**MATA 104 Apprenticeship Mathematics IV** **1 hr (Sem II)**  
Prerequisite: A grade of C or better in MATA 103. This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students. This course reviews basic algebraic equations and applications. In addition, students will be introduced to the fundamentals of plane geometry and right triangle trigonometry. 1 lecture hour.

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**MATA 105 Apprenticeship Mathematics V** **1 hr (Sem I)**

Prerequisite: A grade of C or better in MATA 104. This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students. This course covers the principles and applications of geometry including geometric figures, construction, and calculations. Calculations related to circles, triangles, and other common polygons will be covered. 1 lecture hour.

**MATA 106 Apprenticeship Mathematics VI** **1 hr (Sem II)**

Prerequisite: A grade of C or better in MATA 105. This course is designed specifically for Associated Builders and Contractors Association Apprenticeship Students. This course covers the principles and applications of right-angle trigonometry including analysis of trigonometric functions, calculations of angles and sides of right triangles. 1 lecture hour.

**Mathematics**

Initial student placement in mathematics will depend upon high school mathematics background and CPT math scores.

**MATH 009 Arithmetic** **4 hrs (Sem I, II)**

Review of four basic operations with whole numbers, fractions and decimals, percentages, proportions and measurement. This course is required of all students with an AR score of 34 or less. 4 lecture hours.

**MATH 011 Pre-Algebra** **4 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MATH 009, or open to other students with a CPT AR score of 35 or greater. Review of four basic operations with respect to whole numbers, fractions, and decimals. Exponents, prime numbers, square roots, percents, metric system, denominate numbers and basic algebra skills. 4 lecture hours.

**MATH 012 Beginning Algebra** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MATH 011, or open to other students with a CPT AR score of 64 or greater and an EA score of 32 or more OR an EA score of 40 or greater. Number systems, linear equations, exponents, polynomials, factoring, rational expressions and equations, applications and formulas, graphing, and systems of equations. 3 lecture hours.

**§MATH 101 Intermediate Algebra** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MATH 012, or open to other students with a CPT EA score of 53 or greater. Systems of equations and inequalities, polynomials and exponents, factoring, rational expressions and equations, roots, radicals, and complex numbers, quadratic equations, and applications. 3 lecture hours.

**MATH 102 College Algebra** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MATH 101, or open to other students with a CPT EA score of 74 or greater. Designed as a pre-calculus course for the study of functions (including polynomial, rational, exponential, and logarithmic) and their graphs; includes transformations of functions, operations on functions, solution methods for linear and non linear equations, systems, and inequalities, and selected topics from analytic geometry. Utilizes graphing technology. *This course is a transferIN course.* 3 lecture hours.

**MATH 103 Mathematics and Its Applications** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MATH 101, or an Accuplacer CPTS EA score of 74 or greater. Street networks, visiting vertices, planning and scheduling, linear programming, producing data, exploring data, probability and statistical inference. *This course is a transferIN course.* 3 lecture hours.

**MATH 104 Trigonometry** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in or concurrent enrollment in MATH 102. Discussion of trigonometric functions of angles and numbers. Use of trigonometric functions both in triangle solutions and in study of physical phenomena such as electric circuit and sound waves. Trigonometric identities and of inverse trigonometric functions. *This course is a transferIN course.* 3 lecture hours.

**MATH 110 Statistics** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in MATH 102 or higher or a CPTC score of 55 or higher. Designed for education, social science and other non-math majors. Tabular and graphical representation of statistical data, measures of central tendency and dispersion, basic probability sampling, statistical inference, and correlation. 3 lecture hours.

**MATH 111 Finite Mathematics** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MATH 101, or open to other students with a CPT EA score of 74 or greater. Basic set theory, counting techniques, probability (including Markov chains, random variables, binomial distribution, and expected value), linear systems, matrices, linear programming and finance. Applications to problems from business and social sciences. *This course is a transferIN course.* 3 lecture hours.

- MATH 112 Mathematics for Elementary Teachers I** **4 hrs (Sem I, II)**  
 Prerequisite: A grade of *C* or better in MATH 101, or open to other students with a CPT EA score of 74 or greater. The sequence MATH 112-212 fulfills the mathematics requirements for elementary education majors. Problem solving, set theory, numeration systems, real numbers, foundations for arithmetic algorithms, elementary number theory, interest, functions and probability. 4 lecture hours.
- MATH 115 Survey of Calculus I** **3 hrs (Sem I, II)**  
 Prerequisite: A grade of *C* or better in MATH 102 or MATH 111, or CLM score of 55 or greater. Not open to those with credit in MATH 118; does not substitute for MATH 118. For students in business, social science or pre-professional programs. Introduction to derivative, integrals and their application. *This course is a transferIN course.* 3 lecture hours.
- MATH 116 Survey of Calculus II** **3 hrs (Sem II)**  
 Prerequisite: A grade of *C* or better in MATH 115. Continuation of MATH 115. Further study of derivatives, integrals and their application. Includes partial derivatives, integration techniques, introductory differential equations, series, and Taylor approximations. *This course is a transferIN course.* 3 lecture hours.
- MATH 118 Calculus with Analytic Geometry I** **5 hrs (Sem I, II)**  
 Prerequisites: A grade of *C* or better in both MATH 102 and 104, or a CLM score of 55 or greater. A knowledge of high school trigonometry is assumed. Plane analytic geometry, limits, differentiation and applications, introduction to integration, inverse functions, logarithm and exponential functions, and hyperbolic functions. *This course is a transferIN course.* 5 lecture hours.
- MATH 119 Calculus with Analytic Geometry II** **5 hrs (Sem I, II)**  
 Prerequisites: A grade of *C* or better in MATH 118. Continuation of MATH 118. Calculus of one variable. Further study of integration techniques and applications, inverse trigonometric and hyperbolic functions, parametric equations, polar coordinates and graphing, conic sections, improper integrals, sequences, series, differentiation and integration of power series, introduction to vector analysis. *This course is a transferIN course.* 5 lecture hours.
- MATH 212 Mathematics for Elementary Teachers II** **4 hrs (Sem I, II)**  
 Prerequisite: A grade of *C* or better in MATH 112. The sequence MATH 112-212 fulfills the mathematics requirements for elementary education majors. Major emphasis on basic mathematical logic; geometry of the plane and space; intuitive concepts, transformations, tessellations, measurement, the metric system; statistics, measures of central tendency and dispersion, and graphs. 4 lecture hours.
- MATH 220 Intermediate Calculus** **4 hrs (Sem I, II)**  
 Prerequisite: A grade of *C* or better in MATH 119. Third of three courses in Calculus. Topics include further study of infinite series, three-dimensional graphing, study of functions of two variables, partial differentiation, multiple integration, two- and three-dimensional vector analysis, and selected applications. 4 lecture hours.
- MATH 223 Differential Equations with Linear Algebra** **4 hrs (Sem II)**  
 Prerequisite: A grade of *C* or better in or concurrent enrollment in MATH 220. Elementary study of linear algebra using *n*-dimensional coordinate spaces; solutions to linear differential equations both homogeneous and nonhomogeneous using several techniques; also solutions to some nonlinear differential equations; application of these principles. 4 lecture hours.
- §MATH 224 Special Projects for Mathematics Majors<sup>R/W/S</sup>** **1 hr (Sem II)**  
 Prerequisite: A grade of *C* or better in READ 011, or appropriate test scores. Corequisite: MATH 223. An intensive reading, writing and speaking mathematical course concerning elementary study of linear algebra using *n*-dimensional coordinate spaces, linear differential equations both homogeneous and nonhomogeneous, nonlinear equation and application of these principles cumulating in the presentation of a research term paper. 1 lecture hour.
- MATH 265 Linear Algebra** **3 hrs (Sem II)**  
 Prerequisite: A grade of *C* or better in MATH 220. May be taken concurrently with MATH 266. Study of elementary linear algebra. Topics include linear systems, matrices, linear dependence and independence, rank, vector spaces, determinants, eigenvalues, and eigenvectors. 3 lecture hours.

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**MATH 266 Differential Equations** **3 hrs (Sem II)**

Prerequisite: A grade of *C* or better in MATH 220. May be taken concurrently with MATH 265. An introduction to ordinary differential equations and their solution techniques. Topics include linear and nonlinear differential equations, algebraic solution methods, Laplace transforms, power series, and applications of differential equations. 3 lecture hours.

**♠MATH 310 Statistics in Health Care Research** **3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. This course introduces students to statistical methods that are used in business and economics as applied to health care. Students will learn to use graphical and numerical methods to summarize data sets, use probability in decision-making, simple linear regression, and inference procedures for one and two parameters. 3 lecture hours.

**♠MATH 311 Geometries** **3 hrs (Sem I)**

Prerequisites: A grade of *C* or better in MATH 220; *and* junior level standing or consent of the instructor. Foundations of Euclidean and non-Euclidean geometry, metric and synthetic approaches. Incidence, betweenness, separation, congruence, transformation, similarity, and the role of the parallel postulate. 3 lecture hours.

**♠MATH 312 Probability and Statistics** **3 hrs (Sem I)**

Prerequisites: A grade of *C* or better in MATH 220; *and* junior level standing or consent of the instructor. Probability sampling, statistical inference, graphical and numerical representation of data, correlation, regression and probability distributions, analysis of variance, and covariance. 3 lecture hours.

**♠MATH 321 Introduction to Abstract Mathematics** **3 hrs (Sem II)**

Prerequisites: A grade of *C* or better in MATH 220; *and* junior level standing or consent of the instructor. Set theory, relations and functions, equivalence relations, cardinality, and other topics encountered in modern abstract mathematics. Enhancing the student's ability to read, write, and understand proofs will be emphasized. 3 lecture hours.

**♠MATH 322 Introduction to Analysis** **3 hrs (Sem II)**

Prerequisites: A grade of *C* or better in MATH 220; *and* junior level standing or consent of the instructor. The real number system as a complete ordered field, functions of a single real variable, continuity, differentiability, and uniform continuity. 3 lecture hours.

**MATH 411 Linear Algebra II** **3 hrs (Sem I)**

Prerequisites: A grade of *C* or better in MATH 223; *and* senior level standing or consent of the instructor. Systems of linear equations, vector spaces, basic properties of matrices and determinants, linear transformations on a vector space, and eigenvectors and eigenvalues. 3 lecture hours.

**MATH 412 Abstract Algebra** **3 hrs (Sem I)**

Prerequisites: A grade of *C* or better in MATH 411; *and* senior level standing or consent of the instructor. An introduction to the basic concepts of abstract algebra, including groups, rings, and fields. 3 lecture hours.

**MATH 422 Topics in Mathematics** **3 hrs (Sem II)**

Prerequisite: Senior level standing or consent of the instructor. Corequisite: MAED 421. Topics from various areas of mathematics which are not included in the regular undergraduate courses. 3 lecture hours.

**MATH 490 Capstone Experience, Mathematics Education** **3 hrs (Sem I)**

Prerequisite: Senior level standing or consent of the instructor. A course intended to synthesize and integrate the knowledge and skills of the major course work and the general and liberal education course work. Students will be required to complete a major research project aimed at addressing a philosophic, social, political, economic, or historical problem connected to Mathematics Education. Activities in the course will include a major research paper and an oral presentation based on significant research and project results. These activities will be opportunities for students to display the content knowledge, research skills, critical thinking, affective learning, and presentation skills needed to be life-long learners. 3 lecture hours.

**Technical Mathematics**

**♠MATT 103 Consumer Arithmetic** **3 hrs (Sem I, II)**

Prerequisite: A grade of *C* or better in MATH 009, or open to other students with a CPT AR score of 35 or greater. Practical concepts and skills necessary to function as consumers. (Does not substitute for MATT 109.) 3 lecture hours.

**♠MATT 105 Applied Mathematics I** **4 hrs (Sem I, II)**

Prerequisites: A grade of *C* or better in READ 009 and MATH 009, or open to other students with a CPT AR score of 35 or greater. Review of arithmetic, mensuration formulas, percentage applications, an intro-

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duction to metric system, and development of basic algebraic skills. Problem solving techniques stressed. 4 class hours.

**MATT 106 Applied Mathematics II** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MATT 105, or open to other students with a CPT AR score of 64 or greater and an EA score of 32 or greater OR an EA score of 40 or greater. Theory of equations including solution of simultaneous linear equations by algebraic methods and determinants; linear functions; quadratic equations in one variable; continuation of equations in one variable; introduction to analytic geometry and right-angle trigonometry. 3 lecture hours.

**MATT 107 Applied Mathematics III** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MATT 106, or open to other students with a CPT EA score of 53 or greater. Continuation of MATT 106 and study of trigonometry including law of sines and law of cosines. Continued emphasis on practical applications. 3 lecture hours.

**§MATT 109 Business Mathematics** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 009 *and* MATH 009, or open to other students with a CPT AR score of 35 or greater. Survey course primarily for business majors. Introduction to discounts, finance, depreciation, mark-ups, investments, and statistics. Practical applications emphasized. 3 lecture hours.

**Multimedia Communications**

**MCOM 102 Introduction to Audio-Video Production<sup>s</sup>** **3 hrs (Sem I)**

An overview of audio and video production for non-broadcasting majors. This course is an introduction to the basic equipment, skills, and techniques related to audio and video production. 2 lecture hours, 2 laboratory hours.

**§MCOM 285 Multimedia Internship/Practicum<sup>R/W/S</sup>** **4 hrs (Sem I, II, Summer)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, *and* completion of 30 credit hours or consent of advisor. Students must complete 200 hours of supervised internship credit with an approved business, or arrange, with the internship coordinator's approval, a project or series of projects to demonstrate the practical application of multimedia.

**Management**

**MGMT 100 Introduction to Business** **3 hrs (Sem I, II)**

Exposes the student to the many kinds of business activities and how they influence society. Deals with three basic areas of business: production, marketing, and finance. Covers the role of people in business, from the managerial functions to the non-managerial skills. *This course is a transferable course.* 3 lecture hours.

**MGMT 101 Personal Adjustment to Business** **1 hr (Sem I, II)**

What you need to know and do to get a job and to succeed in it. Mechanics of applying for a job, interview techniques, and job success factors. Individualized self-instruction mode. 1 class hour.

**MGMT 130 Introduction to Community Leadership** **1 hr (Sem I)**

This course is designed to introduce students to leadership skills and to develop an understanding of local government, and create community pride. Students will have case studies emphasizing *maintaining and improving quality of life issues in their community*. Students will use their skills to complete a class project for the community. 1 lecture hour.

**MGMT 210 Perspectives in Sales** **1 hr (Sem I, II)**

This course is designed to acquaint the students with the motivational skills of successful selling and an insight into themselves and their professional goals. This course may be used to meet one of the requirements for the American Sales Association Certification Program. 1 class hour.

**MGMT 230 Community Leadership** **3 hrs (Sem I)**

The purpose of this course is to enhance the leadership skills, develop understanding of county government, and create community vision of individuals in Knox County. Case studies, community speakers, activities will be used to create a foundation on which to base the class project. 3 class hours.

**MGMT 240 Microcomputers in Business** **3 hrs (Sem I, II)**

This course provides increased computer literacy for students through basic hardware and software information with appropriate technology terms. The primary focus of the course is to provide training in specific computer applications including Windows, word processing, spreadsheets, and financial programs for

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personal computers. Basic Internet instruction will also be included in the class. 3 lecture/laboratory hours.

**§MGMT 250 Introduction to Management<sup>R/W</sup> 3 hrs (Sem I, II)**

The purpose of this course is to prepare students to develop their personal philosophy of management. Management concepts presented in this course are based on traditionally accepted management theory and represent practical tools that managers commonly use to meet organizational challenges. Students will be introduced to many possible situations that managers must frequently handle. 3 lecture hours.

**§MGMT 253 Small Business Management<sup>R/W/S</sup> 3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A study of basic principles of business operations, including location, financial planning, physical layout, sales promotion, inventory control, record keeping, and government and legal restrictions. Major emphasis is given to small business operations and management. Students will research and write a formal business plan followed by an oral presentation of that business plan. 3 lecture hours.

**MGMT 255 Principles of Salesmanship<sup>S</sup> 3 hrs (Sem I, II)**

A familiarization with the basic principles of selling, and practicing in the art of selling. Emphasis on the techniques of approach, greeting, presentation, overcoming objections, closing the sale, and developing and maintaining prospects. 3 lecture hours.

**§MGMT 256 Human Resource Management<sup>R</sup> 3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and MGMT 250. A study in the management of human resources. Topics such as measuring human resource needs for a business, recruiting and selecting the best prospects for employment, developing, motivating and rewarding employees. Leadership and team-building concepts that enhance an organization's productivity will also be discussed. 3 lecture hours.

**MGMT 257 Supervision 3 hrs (Sem II)**

This course concentrates on the job responsibilities of the first-line supervisory level. As the level of management directly responsible for planning, organizing, influencing, controlling and directing the activities of non-management employees, they are the primary contacts most employees have with the total organization and its objectives. The strategy of this course is to be practical in nature and to apply theoretical concepts to possible situations that first-line supervisors must frequently handle. Special emphasis is placed on implementing change, planning, delegating, motivating for greater performance, and monitoring the changing role of the supervisor in the new "team environment." 3 lecture hours.

**MGMT 260 Organizational Leadership 3 hrs (Sem I, II)**

This course is the cornerstone of the organizational leadership program. The course will provide analysis of leadership through study of the major leadership theories throughout history. The course will also focus on how leadership works with change, problem solving, power, technology, decision making, and other issues inherent in guiding and facilitating an organization. 3 lecture hours.

**MGMT 265 Business Statistics 3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MATH 101, or an Accuplacer CPTS EA score of 74 or greater. This course is designed for students wanting to increase their understanding of business analysis. Topics include descriptive techniques, some probability concepts, sampling theory, statistical inference, and regression and correlation. The major emphasis is on developing critical thinking skills to apply statistical concepts to business applications. 3 lecture hours.

**MGMT 270 Leadership and Group Dynamics 3 hrs (Sem I, II)**

This course will explore how leadership models effect human behavior and in particular the development of healthy relationships between persons and organizations. Topics to be studied include group dynamics, team building, mental models, personal mastery, individual and group vision, systems theory and the development of a learning organization. 3 lecture hours.

**MGMT 275 Introduction to Business Finance 3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in ACCT 100 or 201, and MATT 109 or MATH 101. This is a basic study of the sources and use of funds. Subjects covered include ratio analysis, financial leverage, management of working capital, capital budgeting, and short- to long- term financing. 3 lecture hours.

**MGMT 280 Introduction to Marketing 3 hrs (Sem I, II)**

Designed to provide students with a basic background of marketing activities as seen from the manager's point of view. Includes marketing strategy in general, packaging and branding, distributing and channel systems, retailing, wholesaling, mass media advertising, personal selling and matters concerning pricing decisions. 3 lecture hours.

**MGMT 284 Operations Management** **3 hrs (Sem I, II)**

This course will allow the student to assess financial and other pertinent data to enhance decision-making regarding pricing, marketing, production, purchasing, and inventory control. Topics of discussion include capacity, scheduling, financial statement analysis, strategic planning, budgeting, marketing and pricing strategies. 3 lecture hours.

**MGMT 290 Applied Management I** **2 hrs (Sem I, II)**

Prerequisite: Second year standing. Offered on an arranged basis to qualified students who plan to participate in a community-based or business project while serving in a leadership or managerial capacity. Enrollment limited. 2 class hours.

**MGMT 291 Applied Management II** **2 hrs (Sem II)**

A continuation of MGMT 290. 2 class hours.

**MGMT 293 Integrated Business Project** **3 hrs (Sem I, II)**

This course consists of a capstone project to assess the individual and program competencies of the business student. Activities in this course include skill development in securing gainful employment, creating a career plan, and an integrated business project demonstrating the successful synthesis of multiple business skills. This course is intended to be completed in the students' final semester prior to graduation. 3 class hours.

**♠MGMT 305 Principles of Management** **3 hrs (Sem I)**

Prerequisite: Junior level standing. This course is designed to acquaint students with their research in this developing field (special emphasis on leadership styles and motivational techniques) and to familiarize students with the functions of management and their importance as components of the total management process. Concepts presented are based on traditionally accepted management theory and represent practical tools that managers commonly use to meet organizational challenges. 3 lecture hours.

**♠MGMT 341 Human Resource Management** **3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. This course will focus on managerial issues related to job descriptions, recruiting, interviewing, hiring, firing, orientation, benefits, appraisal, discipline, and developing personnel. 3 lecture hours.

**♠MGMT 343 Operations/Systems Management in Health Care** **3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. This course will focus on operational functions of managers including work design and re-engineering; systems theory; development, planning, and analysis; ergonomics and work environment; and quality improvement techniques in health care. 3 lecture hours.

**♠MGMT 353 Production Operations** **3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. A study of basic principles of business operations, including location, financial planning, physical layout, sales promotion, inventory control, record keeping, and government and legal restrictions. Major emphasis is given to business operations and management. 3 lecture hours.

**♠MGMT 354 Financial Management in Health Care** **3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Overview of financial management functions at departmental level; budgeting and cost analysis for department-level operations and capital expenditures. 3 lecture hours.

**♠MGMT 432 Organizational Management in Health Care** **3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Behavioral science concepts including leadership, managing change, negotiating, conflict resolution, team building, organizational assessment, marketing, and entrepreneurship. Overview of U.S. health care system; implications of environmental trends and health care policy on health care organizations; and introduction to financing of health care. 3 lecture hours.

**♠MGMT 433 Organizational Management** **3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Behavioral science concepts including leadership, managing change, negotiating, conflict resolution, team building, organizational assessment, marketing, and entrepreneurship. Overview of U.S. businesses and the implications of environmental trends. 3 lecture hours.

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**◆MGMT 450 Issue Analysis****3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. This course focuses on strategies for organizing information and making decisions while assessing conditions of uncertainty and risk. Students will focus on problem solving involving problem definition, evaluation and choice of alternative, and implementation and evaluation of the decision. 3 lecture hours.

**Manufactured Housing****MHCT 101 Floor Framing Systems****3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, lag clip assembly, lagging the floor to the frame, floor insulation, floor framing layout and design, joist notching, decking preparation and installation, and frame camber integrity procedures. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 102 Wall Framing and Assembly****3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, jig table utilization and installation of the following components: splice blocks, headers, cripples, and exhaust openings. The training also requires rough opening verification of exterior windows and doors, LVL ridge beam construction and inspection, bonding strap installation, wall insulation, and exterior sheathing. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 103 Roof Framing Systems****3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, roof construction and ceiling assemblies, jig table utilization, ceiling board installation, roof truss positioning and securing, truss repair, ceiling firestops, single-double center endwall inspection, and shear joist block frame connections. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 104 Roofing, Sheathing and Shingling Applications****3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, the installation of roof sheathing, drip edging, building paper, roof flashings, roof vent openings, and roof shingles. This training also requires knowledge of shingling applications for intersecting roofs. *Offered primarily at off-campus site.* Minimum of 90 training and in-plant hours.

**MHCT 105 Finish Floor Coverings****3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, the installation of various types of vinyl flooring and carpet and padding. These tasks require knowledge of perimeter fastening applications, tack stripping and stapling, carpet seaming, and stretching and cutting. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 106 Wall Coverings and Systems Applications****3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, installation of various types of wall coverings, including drywall and/or finished vinyl panels. This requires knowledge of gluing installation procedures, panel splitter operation, router tool operation, and other mechanical fasteners. Training may also include the use of mechanical paint sprayers and wall texturing devices and techniques. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 107 Door and Window Installation****3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, the installation of exterior and interior doors, exterior windows. This requires knowledge of rough opening verification for size and squareness, the application of weather proofing sealants, installation of weather stripping around exterior doors and windows, and various types of fasteners appropriate for each installation. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 108 Finish Molding Systems****3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, the installation of various types of moldings, including casing, baseboard, crown molding, battens, chair rail, and galley rail. These applications require knowledge of different types of fasteners and gluing procedures. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 109 Rough Electrical Systems****3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, the installation of non-metallic wiring and rough electrical boxes. Wiring systems will cover branch circuits, individual circuits, and small appliance circuits. These systems will be 120/240-volt single-phase wiring systems. The wiring systems will be installed according to the National Electrical Code. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 110 Finish Electrical Systems****3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, the installation of finish electrical components such as receptacles, switches, thermostats, smoke detectors, electrical panels, and overcurrent protection devices.

Duties in this area might also include the installation of finished electrical devices interior and exterior light fixtures and medicine cabinets. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 111 Electrical Systems Testing** **3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, all testing which follows the energizing of the electrical system. One area of this testing would involve the verification of current to all switches, receptacles, smoke detectors, lighting, and overcurrent protection devices. In addition, training in this area includes testing ground fault circuit interrupters (GFCI), the polarity of electrical devices, and electrical bonding. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 112 Heating, Ventilating and Air Conditioning Delivery Systems** **3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, the fabrication and installation of the heating and cooling main trunk line, individual duct runs and air returns. Training may include the use of various materials to meet the building requirements of states to which units might be shipped. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 113 Heating and Cooling Components Installation** **3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, the installation of both gas and electric heating systems, the fabrication of a plenum for the furnace, and the installation of the evaporator coil. Instruction will include the selection of proper electrical cable and/or gas piping. This training will include the inspection and testing of gas piping and electrical systems. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 114 Potable Water Supply** **3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, the determination of the direction and number of sites for water delivery, the connection of water lines to tubs, showers, sinks, hot water heaters, dishwashers, water closets, and outside hydrants, among others. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 115 Drain, Waste and Ventilation** **3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, the determination of the direction and number of sites that will receive waste materials. These sites include kitchens, baths, furnace rooms, clothes washing machine hook-ups, and any other areas as required. Instruction will include not only the installation of but also the determination of the number and size of drains and vents. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 116 Prefabricated Wall Assembly** **3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, hoisting and fastening the prefabricated interior and exterior walls of a manufactured unit on to the housing floor, maintaining the squareness of the walls as the walls are joined, and maintaining the plumb of the walls in preparation for the roof assembly. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 117 Prefabricated Roof and Ceiling Assembly** **3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, hoisting and fastening the prefabricated roof and ceiling frame to the interior and exterior walls of the manufactured unit and maintaining the squareness and plumb of the walls as the roof frame is set in place and fastened. This training would also include some emphasis upon an awareness of varying types of roof frame systems and adaptations in fastening procedures. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 118 Prefabricated Cabinet Assembly** **3 hrs (Sem I, II)**

Training in this area includes, but is not limited to, the fabrication of cabinet frames as appropriate to the manufactured unit's design and the installation of the cabinet frames for all wall and base cabinets in the unit. In addition, this training may include the installation of doors, countertops, and all appropriate hardware. *Offered at off-campus sites.* Minimum of 90 training and in-plant hours.

**MHCT 201 Manufactured Housing Improvement Processes** **3 hrs (Sem I, II)**

Emphasis in this course is upon development of improved organization-wide training methods, increasing productivity through such things as workplace simplification, maintaining quality while improving productivity, training in the concepts of total quality management, and organizational leadership development. *Offered at off-campus sites.* 45 total class hours.

**MHCT 202 Manufactured Housing Quality Standards** **3 hrs (Sem I, II)**

This course is directed toward production persons and superintendents and emphasis is upon HUD Guidelines Part 3280, Manufactured Housing Construction and Safety Standards. Organizational emphasis is upon developing procedures to comply with or exceed these standards. *Offered at off-campus sites.* 45 total class hours.



**MHCT 203 Manufactured Housing and OSHA Regulations** **3 hrs (Sem I, II)**  
Instruction will be provided in organizational safety requirements and philosophy and OSHA guidelines in relationship to the manufactured housing industry. *Offered at off-campus sites.* 45 total class hours.

### **Military Science**

**MILI 100 Personal Management Skills** **1 hr (Sem I, II)**  
This course is designed to review and strengthen students' personal skills to enhance their civilian and military job skills. The course components include goal setting, time management, communication skills and stress in the workplace. *Offered primarily through the Military Education Program.* 1 class hour.

**MILI 101 Introduction to Military Effective Writing** **1 hr (Sem I, II)**  
This course is designed to teach the basic tenets required for modern military correspondence, including explicit statement of purpose/goal, almost exclusive use of active voice, the necessity of concise and precise statement. The course will include an in-class grammar review. The course will teach the use of mind mapping as an organizational device. *Offered primarily through the Military Education Program.* 1 class hour.

**MILI 102 Military Effective Writing** **2 hrs (Sem I, II)**  
This course is designed to teach the basic tenets required of modern military correspondence, including explicit statement of purpose/goal, almost exclusive use of active voice, the necessity of concise and precise statement. The course will also include an extensive grammar review and will introduce mind mapping as an organizational device. The emphasis will be on the techniques of exposition and argumentation, and the course will involve the completion of at least four major writing assignments. *Offered primarily through the Military Education Program.* 2 class hours.

**MILI 106 Foundations of Officership** **2 hrs (Sem I)**  
Introduces students to issues and competencies that are central to a commissioned officer's responsibilities. Establishes the framework for understanding officership, leadership, and Army values followed and "life skills" such as physical fitness and time management. 2 class hours.

**MILI 107 Basic Leadership** **2 hrs (Sem II)**  
Establishes the foundation of basic leadership fundamentals such as problem-solving, communications, briefings and effective writing, goal setting, techniques for improving listening and speaking skills and an introduction to counseling. 2 class hours.

**MILI 116 Counseling Military Personnel** **1 hr (Sem I, II)**  
Topics include the leaders as a counselor, counselee reactions, pitfalls in counseling, personal counseling, performance counseling, training counselors to counsel, approaches to counseling, counseling skills and procedures, and the art of communicating. *Offered primarily through the Military Education Program.* 1 class hour.

**MILI 117 Special Topics in Career Planning** **1 hr (Sem I, II)**  
The purpose of this course is to provide students with an opportunity to focus on a particular career planning need. Content of the course for a given semester will be announced. Special topics could include the following: making a career change, using SIGI-Plus (computer-based aid) in career planning, effective decision making, work stress management skills, occupational trends and information. 1 class hour.

**MILI 118 Leadership and Management II** **1 hr (Sem I, II)**  
The purpose of this course is to provide students with an understanding of the basic skills needed for successful communication, counseling and stress management. Topics include the communication process; qualities, elements, skills, verbal and nonverbal concepts and perception in communications, as well as the basic concepts of counseling skills and management of stress. *Offered primarily through the Military Education Program.* 1 class hour.

**MILI 181 Foundations of the United States Air Force I** **2 hrs (Sem I)**  
Corequisite: MILI 181L. This is a survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include mission and organization of the Air Force; officership and professionalism; military customs and courtesies; Air Force officer opportunities; and an introduction to communication skills. A leadership laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. 1 lecture hour.

**MILI 181L Leadership Laboratory I** **0 hrs (Sem I)**  
Corequisite: MILI 181. Meets one day per week for 2 hours. This class is mandatory for cadets pursuing a commission in the United States Air Force. The lab provides cadets with followership experiences. Cadets apply leadership concepts and principles, and practice critical skills needed to be an effective Air Force officer. 2 laboratory hours.

**MILI 182 Foundations of the United States Air Force II** **2 hrs (Sem II)**

Corequisite: MILI 182L. This course is a continuation of the first semester course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. The student should know the Air Force Core Values and understand the concepts of professionalism and officership, as they apply to the military, along with the opportunities and benefits available to an Air Force officer. The individual should demonstrate basic communicative skills as part of the course. 1 lecture hour.

**MILI 182L Leadership Laboratory II** **0 hrs (Sem II)**

Corequisite: MILI 182. Meets one day per week for 2 hours. This class is mandatory for cadets pursuing a commission in the United States Air Force. Cadets apply leadership concepts and principles, concepts of professionalism and officership, and practice critical skills needed to be an effective Air Force officer. 2 laboratory hours.

**MILI 201 Individual Leadership Studies** **2 hrs (Sem I)**

Students identify successful leadership characteristics through observation of others and self through experiential learning exercises. Students record observed traits (good and bad) in a dimensional leadership journal and discuss observations in small group settings. 2 class hours.

**MILI 202 Leadership and Teamwork** **2 hrs (Sem II)**

Course study examines how to build successful teams, various methods for influencing action, effective communication in setting and achieving goals, the importance of timing the decision, creativity in the problem-solving process, and obtaining team buy-in through immediate feedback. 2 class hours.

**MILI 204 Basic Camp** **4 hrs (Sem II)**

Conducted at Fort Knox, Kentucky, home of the United States Armor Branch, during the summer months covering a training period of approximately 30 days of *paid* training and excitement. The Department of Military Science ROTC battalion provides travel to and from Fort Knox. Students may attend to access their desire to continue and contract into the Advance ROTC Program at Indiana State University Army ROTC Wabash Battalion, or just simply attend to experience the army training environment, fun, excitement and challenge the camp offers at no cost to students. While at camp you will meet students from all over the nation while earning approximately \$800 in pay and receive free room and board while at camp. While at camp, you may apply for a two-year ROTC scholarship to cover up to \$16,000 at selected high cost universities to pay for your remaining two years of college, \$510 annually for books and earn a monthly stipend of over \$200 for 10 months per year. The Basic Camp is a way to catch up on missed Military Science courses, in order qualify the student to contract into the Advanced ROTC Course at Indiana State University. 240 total class hours.

**MILI 281 The Evolution of Air and Space Power I** **2 hrs (Sem I)**

Corequisite: MILI 281L. This course is designed to examine the general aspects of air and space power through a historical perspective. Utilizing this perspective, the course covers a time period from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies), and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. Furthermore, the course examines several fundamental truths associated with war in the third dimension: e.g. Principles of War and Tenets of Air and Space Power. As a whole, this course provides the cadets with a knowledge level understanding for the general element and employment of air and space power, from an institutional doctrinal and historical perspective. In addition, the students will continue to discuss the importance of the Air Force Core Values, through the use of operational examples and historical Air Force leaders, and will continue to develop their communication skills. Leadership laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. 1 lecture hour.

**MILI 281L Leadership Laboratory for Air and Space Power I** **0 hrs (Sem I)**

Corequisite: MILI 281. Meets one day per week for 2 hours. This class is mandatory for cadets pursuing a commission in the United States Air Force. Cadets apply leadership concepts and principles, and practice critical skills needed to be an effective Air Force officer. 2 laboratory hours.

**MILI 282 The Evolution of Air and Space Power II** **2 hrs (Sem II)**

Corequisite: MILI 282L. This course is a continuation of the first semester course designed to examine the general aspects of air and space power through a historical perspective. The student will learn the key terms and definitions used to describe air and space power. The individual should know the events, leaders, and technical developments, which surrounded the evolution and employment of USAF air and space power. The individual should know the Air Force core values, and examples of their uses, throughout the evolution of US air and Space power. 1 lecture hour.

**MILI 282L Leadership Laboratory of Air and Space Power II** **0 hrs (Sem II)**

Corequisite: MILI 282. Meets one day per week for 2 hours. This class is mandatory for cadets pursuing a commission in the United States Air Force. Activities include communication exercises and active duty Air Force experiences. 2 laboratory hours.

**♠MILI 301 Leadership and Problem Solving** **3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 301L. This course is designed for those students who contract with the Army ROTC to continue their military studies in pursuit of a commission as an officer into the Army following graduation from college. The course focus is to build cadet leadership competencies in preparation for attending and completing the ROTC National Advanced Leadership Camp at Fort Lewis, Washington. The course provides an in-depth review of the features and execution of the Leadership Development Program, and provides the cadet with periodic assessment of performance in leadership positions. Students will study squad and platoon level tactics, troop leading procedures, mission analysis, land navigation skills training, military operations plans and orders development, execution of squad battle drills, and basic briefing techniques. 3 lecture hours.

**♠MILI 301L Leadership and Problem Solving Laboratory** **0 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 301. This leadership laboratory supplements classroom instruction. This laboratory is a multi-echelon exercise that introduces Military Science cadets to basic military combat skills, and provides hands-on-training and confidence building. The laboratory is designed to develop individual and team skills, problem solving, decision making, oral and written communication, and planning and organization skills. 2 laboratory hours.

**♠MILI 302 Leadership and Ethics** **3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 302L. The course is designed for those students who contract with the Army ROTC to continue their military studies in pursuit of a commission as an officer into the Army following graduation from college. The course is a follow-on module to the MILI 301 class, in preparing cadets for attending and completing the ROTC National Advanced Leadership Camp at Fort Lewis, Washington. The course will focus on self-development through the Leadership Development Program, and an advanced-learning environment of doctrinal leadership and tactical operations at the small unit level. Cadets will plan and conduct individual and collective skill training for offensive operations. Cadets will be exposed to the developmental counseling program throughout the course period. 3 lecture hours.

**♠MILI 302L Leadership and Ethics Laboratory** **0 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 302. This leadership laboratory supplements classroom instruction. This laboratory is a multi-echelon exercise that introduces Military Science cadets to basic military combat skills and provides hands-on training and confidence building. The laboratory is designed to develop individual and team skills, problem solving, decision making, oral and written communication, and planning and organization skills. 2 laboratory hours.

**♠MILI 381 Air Force Leadership Studies I** **3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 381L. This course is a study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and the communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply the leadership and management principles of this course. 3 lecture hours.

**♠MILI 381L Leadership Studies I Laboratory** **0 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 381. This class meets one day a week for 2-3 hours. This class is mandatory for cadets pursuing a commission in the United States Air Force. This laboratory provides advanced leadership experiences in officer-type activities, and gives students the opportunity to apply leadership and management principles. 2 laboratory hours.

**♠MILI 382 Air Force Leadership Studies II** **3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 382L. This course is a continuation of the first semester course designed to study leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and the communication skills required of an Air Force junior officer. The MILI 381/382 cadet should comprehend selected individual leadership skills and personal strengths and weaknesses as applied in an Air Force environment. The individual should comprehend the responsibility and authority of the Air Force officer, the Air Force officer's responsibilities in the counseling and feedback process, and the selected duties and responsibilities as a subordinate leader. The individual should comprehend and apply the concepts of ethical behavior as well as comprehend the selected concepts, principles and theories of Air Force leadership and management.

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The individual should apply listening, speaking, and writing skills in Air Force-peculiar formats and situations with accuracy, clarity, and the appropriate style. 3 lecture hours.

**◆MILI 382L Leadership Studies II Laboratory 0 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 382. This class meets one day per week for 2-3 hours. This class is mandatory for cadets pursuing a commission in the United States Air Force. Cadets apply leadership concepts and principles, and practice critical skills needed to be an effective Air Force officer. Activities include physical fitness training, communication exercises, drill and ceremonies, and active duty Air Force experiences. 2 laboratory hours.

**◆MILI 401 Leadership and Management 3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 401L. The course is designed to develop, train and transition the advanced course graduate from cadet to lieutenant for service as an officer. Cadets will study how army staff organizations function and the processes of the army's hierarchical organizational structure. Students will learn in-depth counseling responsibilities and methods, officer and non-commissioned officer evaluation report development, officer evaluation reports support form development, and training plan development. Cadets will receive training on basic leadership responsibilities to foster an ethical command climate, to meet moral obligations, and to accommodate subordinate spiritual needs. 3 lecture hours.

**◆MILI 401L Leadership and Management Laboratory 0 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 401. The leadership laboratory supplements classroom instruction. This laboratory is a multi-echelon exercise that introduces Military Science cadets to basic military combat skills, and provides hands-on training and confidence building. The laboratory is designed to develop individual and team skills, problem solving, decision making, oral and written communication, and planning and organization skills. 2 laboratory hours.

**◆MILI 402 Officership 3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 402L. The continued development to transition the advanced camp graduate from cadet to lieutenant for service as an officer. The course analyzes the legal aspects of decision-making and leadership in action. It will expose cadets to the foundations of leadership, operational law, and the key aspects of the Uniformed Code of Military Justice. Students will undergo hands-on training and instruction in Joint Ethics regulations, joint strategic level operations, army administrative and logistics management, depth counseling techniques, and duty at first military assignment. Students will also receive training in personal awareness financial planning. 3 lecture hours.

**◆MILI 402L Officership Laboratory 0 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 402. The leadership laboratory supplements classroom instruction. This laboratory is a multi-echelon exercise that introduces Military Science cadets to basic military combat skills, and provides hands-on training and confidence building. The laboratory is designed to develop individual and team skills, problem solving, decision making, oral and written communication, and planning and organization skills. 2 laboratory hours.

**◆MILI 481 National Security Affairs and Preparation for Active Duty I 3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 481L. This course examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. A mandatory Leadership Laboratory compliments this course by providing advanced leadership experiences, giving students the opportunity to apply the leadership and management principles of this course. 3 lecture hours.

**◆MILI 481L National Security Affairs Leadership I Laboratory 0 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 481. Meets one day per week for 2-3 hours. This class is mandatory for cadets pursuing a commission in the United States Air Force. The laboratory provides advanced leadership experiences, and gives students the opportunity to apply leadership and management principles and practice critical skills needed to be an effective Air Force officer. Activities include physical fitness training, communication exercises, drill and ceremonies, and active duty Air Force experiences. 2 laboratory hours.

**◆MILI 482 National Security Affairs and Preparation for Active Duty II 3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 482L. This course is a continuation of the first semester course designed to examine the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. The cadet should comprehend the basic elements of

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national security policy and process. The individual should comprehend the air and space power functions and competencies. Also, the individual should know selected roles of the military in society and the current issues affecting the military profession, as well as, selected provisions of the military justice system. The individual should comprehend the responsibility, authority, and functions of an Air Force commander. The individual should apply listening, speaking, and writing skills in Air Force-peculiar formats and situations with accuracy, clarity, and appropriate style. The individual should comprehend the factors which facilitate a smooth transition from civilian to military life. 3 lecture hours.

**♠MILI 482L National Security Affairs Leadership II Laboratory** **0 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: MILI 482. The class meets one day per week for 2-3 hours. This class is mandatory for cadets pursuing a commission in the United States Air Force. The course is designed to examine the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Activities include physical fitness training, communication exercises, drill and ceremonies, and active duty Air Force experiences. 2 laboratory hours.

### Marketing Management

**MKTG 101 Marketing Seminar** **1 hr (Sem I)**

Practice in human relations and merchandising management decision making; conducting an advertising campaign and sales manager meetings; performing as a sales representative; presentation of marketing improvement reports; and window display and promotion applications. 1 seminar hour.

**MKTG 152 Marketing Seminar** **1 hr (Sem II)**

Continuation of activities in MKTG 101. 1 seminar hour.

**MKTG 155 Consumer Behavior** **3 hrs (Sem I)**

The rudiments of consumer behavior. An inquiry into consumer behavior and its relationship to marketing activities. 3 lecture hours.

**§MKTG 200 Retailing<sup>R</sup>** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Identification of basic retailing institutions in the economic process and a familiarization with the problems which confront retailing management, such as decisions of location, layout, merchandising, organization, promotion, pricing and services. The case approach is utilized. 3 lecture hours.

**MKTG 203 Marketing Seminar** **1 hr (Sem I)**

Continuation of activities in MKTG 101 and 152. 1 seminar hour.

**MKTG 250 Sales Management<sup>W/S</sup>** **3 hrs (Sem II)**

Prerequisites: MKTG 155 and MGMT 255. The human aspects of selling and sales management strategies. How to sell all kinds of customers; how to use persuasive skills to create customer commitment; how to uncover customer wants and prove benefits; and how to get repeat business. Techniques to better motivate, coach and counsel sales people to help them grow and produce more sales. 3 lecture hours.

**MKTG 254 Marketing Seminar** **1 hr (Sem II)**

Continuation of activities in MKTG 101, 152 and 203. 1 seminar hour.

**§MKTG 260 Advertising and Promotion<sup>R/S</sup>** **3 hrs (Sem I)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A study of persuasion and information with emphasis on promotional messages and methods used in business today. Promotion will focus upon management of the methods of persuasion used in today's marketing system. 3 lecture hours.

**♠MKTG 305 Principles of Marketing** **3 hrs (Sem I)**

Prerequisite: Junior level standing. This course is designed to evaluate various issues involved in marketing functions taking place in a dynamic business environment. The focus of the course is on the management of marketing by individual businesses. Key topics covered will include the marketing environment, markets and customers, and decision-making regarding the elements of the marketing mix. 3 lecture hours.

### Mine Safety and Health Training

**MSHT 100 Mining Practices** **3 hrs (Sem II)**

This course provides an understanding of the various mining methods used to extract product from the ground, including conventional, continuous, longwall, open pit, dredge, truck and shovel operations. Also included is a study of terminology, safe and healthy mining practices, environmental issues, and reclamation. History related to the mining industry will be studied. Students will gain an understanding of explosives--their use, handling, and storage. 3 lecture hours.

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**MSHT 103 Surface New Miner Training** **1 hr (Offered on Demand)**  
Each new miner will receive no less than 16 hours of training with an additional 8 at the mine site and 24 hours of training for contractors as prescribed in the following: Statutory rights of miners and their representatives under the Act of 1977, self rescue and respiratory devices, transportation controls and communication systems, introduction to the work environment, escape and emergency evacuation plans, fire warning and firefighting, ground control, working in areas of high walls, water hazards, pits and spoil banks, illumination and night work, health issues, hazard recognition, electrical hazards, first aid, explosives, health and safety aspects of the tasks to which the new miner will be assigned. Leads to MSHA certification. 16 hours of instruction.

**MSHT 104 Underground New Miner Training** **2 hrs (Offered on Demand)**  
Each new miner will receive no less than 32 hours of training for new miners with an additional 8 hours being given at the mine site and 40 hours of training for contractors as prescribed in the following: Statutory rights of miners and their representatives under the Act of 1977, self rescue and respiratory devices, entering and leaving the mine, transportation and communications, introduction to the work environment, mine map, escapeways, emergency evacuation, and barricading, roof or ground control, ventilation, emergency evacuation and firefighting plans, health issues, cleanup and rock dusting, hazard recognition, electrical hazards, first aid, mine gases, health and safety aspects of the tasks to which the new miner will be assigned. Leads to MSHA certification. 32 hours of instruction.

**MSHT 200 Mining Law & Regulations** **3 hrs (Sem I)**  
This course will study laws and regulations affecting mining, including the Mining Act, CFR 30 with a focus on parts 56, 57, 75 & 77, Program Policy Manual, Mine Plans, and Environmental Law related to mining. It will also cover the role of MSHA, State agencies, and other regulatory agencies as related to mining operations. The focus of this class will be on the identification and knowledge of how the regulations and laws are structured. 3 lecture hours.

**MSHT 220 Mining Health & Safety** **3 hrs (Sem I)**  
This course studies health issues facing mining, such as respirable dust, toxic products, radiation and hazard communication. Also included are accident prevention methods, hazard recognition, respiratory devices, self contained self rescuers, fire fighting methods, emergency escape procedures and communication systems. 3 lecture hours.

**MSHT 240 Mine Atmosphere & Environment** **3 hrs (Sem II)**  
This course covers mine related atmosphere and the methods used to control the environment miners work in. This would include mine ventilation principles, mine fans, mine gases, instruments used to monitor and measure mine air, exhaust control, respirable dust control, rock dusting, and control of explosive gas and dust. Formulas specific to the mining industry which will increase airflow, pressure and volumetric studies will be covered. 3 lecture hours.

**MSHT 260 Material Handling & Processes** **3 hrs (Sem II)**  
This course studies belt systems, crushing systems, prep plant processes, cleaning and handling products, transportation, support processes, and parts. Also studied are water systems, including pumping water, transportation systems and the economics of processing. 3 lecture hours.

**MSHT 280 MSHA Electrical Certification Class** **6 hrs (Offered on Demand)**  
Each miner will receive 100 hours of classroom instruction with emphasis placed on providing instruction of the safe installation and maintenance of electrical circuits and equipment and overall reduction of electrical accidents and injuries in the mining industry. Training will include the importance of compliance as required under Title 30 of the Code of Federal Regulations, MSHA inspection manuals, and the importance of safe work procedures to be used in the type work in which mine electricians are involved. Leads to MSHA certification. 100 hours of instruction.

#### **Machine Trades – Injection Mold Tooling Technology**

**MTIM 165 Injection Mold Tooling I** **4 hrs (Sem II)**  
Prerequisite: A grade of C or better in MTTD 100. This course is designed to present basic concepts in mold construction. Using conventional machine tool equipment, each student will be required to build a simple injection mold and mold base, set it up in an injection molding machine, and produce plastic piece parts that meet blueprint specifications. 4 lecture hours, 16 laboratory hours (eight-week course).

**MTIM 210 Injection Mold Tooling II** **8 hrs (Sem I)**  
Prerequisite: A grade of C or better in MTTD 155 and MTIM 165. This course is a continuation of MTIM 165 with an emphasis on building a more complex injection mold. Students are required to construct a complex mold that requires the construction and precise locating of many complicated mold inserts and core pins. Experience is provided in CNC mill and wire EDM machining, programming in 2-D and 3-D, and machining of complicated angles, radii and contours. A additional experience is gained in polishing,

computation of shrinkage, and related math needed for machining or construction. 2 lecture hours, 18 laboratory hours.

**§MTIM 265 Injection Mold Tooling III**<sup>R/W/S</sup> **8 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and a grade of C or better in MTIM 210. This course is a continuation of MTIM 210 with moldmaking advanced to a higher level. Students are required to construct a complex mold that requires side action. Complex mold sections are constructed such as angle pins, cam blocks, slides, wear plates, and a cooling system. Experience is provided in CNC Machining, programming, machining of complicated angles, radii and contours. Additional experience is gained in computation of cam blocks, angle pins and shrinkage. 2 lecture hours, 18 laboratory hours.

**Machine Trades – Tool and Die Technology**

**MTTD 100 General Machines** **9 hrs (Sem I)**

Corequisite: MTTD 135 and MTTD 135L. Students become familiar with the power saw, drill press, lathe, milling machine, and surface grinders by performing conventional operations on each machine. Layout, bench and inspection techniques will be incorporated as required. 3 lecture hours, 19 laboratory hours.

**MTTD 105 Metallurgy and Industrial Blueprint Reading** **2 hrs (Sem I)**

This course has two major areas of content. First, a study of basic metallurgical elements and structure will be undertaken. Topics to be discussed deal with properties, classification, heat-treatment, application and troubleshooting as it will concern the toolmaker. The second part of this course is designed to develop students' ability to interpret needed information contained on industrial blueprints. An overview of reading the blueprint as well as its views, dimensions, tolerances and finishing marks will be stressed. Assembly and detailed drawings will be examined on an advanced level. Geometric dimensions, tolerances, and symbols will also be covered. 2 lecture hours.

**MTTD 115 CNC Programming and Operations I** **4 hrs (Sem II)**

Prerequisite: A grade of C or better in MTTD 100. This course will provide the student with extensive programming knowledge of CNC mills and lathes. Students will use Immersive Engineering online virtual training software to input information, edit, set-up tooling, and graphically verify the appropriate code for CNC mills and lathes. Additionally, students will be introduced to conversational programming utilizing ProtoTRAK EMX software. The end result with the various programs will be a piece part program that can machine to blueprint specifications. Emphasis will be placed on proper operations of the HAAS machine control and programming efficiency. 4 lecture hours.

**MTTD 125 CNC Machining Centers** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in MTTD 115. This course is a continuation of MTTD 115 with an emphasis on part programming, set-up and operation of CNC machining and turning centers. Topics covered will include G-code manual programming, tooling selection and installation, automatic and manual controls, TLO's, machine operation, and program editing. 2 lecture hours, 2 laboratory hours.

**MTTD 135 Manufacturing Processes** **2 hrs (Sem I, II)**

Corequisite: MTTD 135L. This course is designed to provide students with a basic understanding of the processes used to produce industrial goods. Topics to be discussed include measurement, layout and inspection, machine tool processes and operations, metallurgy, welding, shop math, and blueprint reading. Students will experience hands-on training with measurement, layout, and machine tool operation. 2 lecture hours.

**MTTD 135L Manufacturing Processes Laboratory** **1 hr (Sem I, II)**

Corequisite: MTTD 135. This lab course is designed to provide the student with a basic understanding of machining processes used to produce goods. Topics to be taught include measurement, layout and inspection, machining processes, metallurgy, welding, shop math, and blueprint reading. 4 laboratory hours.

**MTTD 140 Basic Machining I** **3 hrs (Sem I, II)**

This course is designed to provide students with a basic understanding of operations and processes found in a machine shop. Students will become familiar with the power saw, drill press, lathe, milling machine and surface grinder. Measurement, layout and inspection will also be covered. 2 lecture hours, 4 laboratory hours.

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

**MTTD 141 Basic Machining II** **3 hrs (Sem I, II)**

Prerequisite: MTTD 140. This course is designed as a continuation of MTTD 140. Topics to be discussed include identification and uses of cutting tools, thread terminology, trigonometry, and shop math. Students will experience hands-on training on the drill press, lathe, milling machine, and surface grinder. 2 lecture hours, 4 laboratory hours.

**MTTD 142 Basic Machining III** **3 hrs (Sem I, II)**

Prerequisite: MTTD 141. The emphasis of this course will be directed toward close tolerance machining. Using the drill press, lathe, milling machine, surface grinder, and machine tool accessories, students will rough machine, heat treat, and precision finish grind detailed parts to a tolerance of plus or minus .0005". Classroom activities will concentrate on precision set-up and inspection work as well as machine shop calculations. 2 lecture hours, 4 laboratory hours.

**MTTD 145 Quality Assurance** **3 hrs (Sem I)**

In this course, students will learn blueprint reading and inspection as it relates to quality assurance in the metalworking and manufacturing environment. Students will gain an understanding of Statistical Process Control (SPC), Geometric Tolerancing and Dimensioning (GTD), correct use and care of basic mechanical and electronic measuring equipment, and correct inspection procedures. 2 lecture hours, 2 laboratory hours.

**MTTD 155 Tool and Die I** **4 hrs (Sem II)**

Prerequisite: A grade of C or better in MTTD 100. This course is designed to give students the basic concepts involved in die construction. Students will be required to build a three-stage progressive die and produce a number of piece parts that meet blueprint specifications. 4 lecture hours, 16 laboratory hours (eight-week course).

**MTTD 200 Tool and Die II** **8 hrs (Sem I)**

Prerequisite: A grade of C or better in MTTD 155 and MTIM 165. The focus of this course is to construct a five-stage progressive die that will perform the following operations: lancing, drawing, side-action piercing, and blank through. Computations on blank lengths and diameters, drawing operations, progression, and timing are covered. Experience will be gained in CNC machining and progressive die troubleshooting. 2 lecture hours, 18 laboratory hours.

**MTTD 205 Welding and Fabrication** **2 hrs (Sem I, II)**

This course is the study of the basic conventional welding techniques in oxy-gas, shielded metal arc, gas metal arc, and gas tungsten arc. Emphasis will be placed on techniques used in the repair and fabrication of various metals using oxy-gas, gas tungsten arc and shielded metal arc welding. 1 lecture hour, 3 laboratory hours.

**MTTD 225 CNC Programming and Operations II** **4 hrs (Sem I)**

Prerequisite: A grade of C or better in MTTD 115. Corequisite: MTTD 225 L. In this course, students will program, set-up, and manufacture parts on CNC machine tools. All parts will be programmed utilizing manual (G-code) and CAD-CAM systems. Emphasis will be placed on programming efficiency, proper set-ups, accuracy, cutter selection, speeds, feeds, carbide tooling, the wire EDM, troubleshooting and interpretation of CNC code. 4 lecture hours.

**MTTD 225L CNC Programming and Operations Laboratory II** **1 hr (Sem I)**

Corequisite: MTTD 225. In this course, each student will program, setup, and operate CNC machine tools. The main machine tools covered will be machining centers, turning centers, and the wire EDM. The Coordinate Measuring Machine (CMM) will also be used to inspect parts. All parts will be programmed utilizing one of two methods; either Mastercam CAD-CAM programming software or Manual G-code programming. Emphasis will be placed on process planning, programming efficiency, accurate setup, proper cutter selection, speeds and feeds, carbide tooling, and the generation and interpretation of CNC code. 3 laboratory hours.

**MTTD 235 CNC Programming and Operations III** **4 hrs (Sem II)**

Prerequisite: A grade of C or better in MTTD 225 and MTTD 225L. Corequisite: MTTD 235L. In this course, students will program, set-up, and manufacture complex two and three-dimensional parts on CNC machine tools. All parts will be programmed utilizing conversational and CAD-CAM systems. Emphasis will be placed on programming efficiency, proper set-ups, accuracy, cutter selection, speeds, feeds, troubleshooting and interpretation of CNC code. 4 lecture hours.

**MTTD 235L CNC Programming and Operations Laboratory III** **1 hr (Sem II)**

Corequisite: MTTD 235. In this course, each student will program, setup, and operate CNC machine tools. The main machine tools covered will be machining centers, turning centers, and the wire EDM. The Coordinate Measuring Machine (CMM) will also be used to inspect parts. All parts will be programmed utilizing one of three methods; either Mastercam CAD-CAM programming software, or Manual G-code programming, or Predator programming software. Emphasis will be placed on process planning, programming



efficiency, accurate setup, proper cutter selection, speeds and feeds, carbide tooling, and the generation and interpretation of CNC code. 3 laboratory hours.

**§MTTD 255 Tool and Die III** <sup>R/W/S</sup> **8 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and a grade of C or better in MTTD 200. This course is a continuation of MTTD 200 with die making at the advanced level. Successful completion of this course requires extensive detail work in machining as well as die making. Students are required to take a part drawing and develop it through the progressive die. Complex die sections are constructed which perform trimming, notching, piercing, piloting, forming and shear-forming operations. Machining operations on die sections involve grinding of complicated contours relevant to advanced die making. Additional experience is gained in programming and operation of CNC milling equipment. 2 lecture hours, 18 laboratory hours.

**MTTD 282 Cutting Tool Techniques and Geometry** **2 hrs (Sem I)**

Cutting tool basics, use techniques, care, coatings and geometry will be studied. 1 lecture hour, 2 laboratory hours.

**MTTD 287 Haas Machine Tool Maintenance** **2 hrs (Sem II)**

Basic maintenance of Haas machining centers will be discussed. Other makes of CNC equipment, including wire EDM machines, will also be discussed. 1 lecture hour, 2 laboratory hours.

**MTTD 380 Advanced Manufacturing CAD/CAM/CNC I** **12 hrs (Sem I)**

Prerequisite: A grade of C or better in MTTD 235. This course will provide the student with the study of cutting tool geometries, experience using Mastercam Volume 2, Solids and Lathe programming. Mastercam certification Level I will be offered. One to three field trips to see industry applications are mandatory. Students will be required to work as a student assistant in one section of MTTD 225L. 6 lecture hours, 16 laboratory hours.

**MTTD 385 Advanced Manufacturing CAD/CAM/CNC II** **12 hrs (Sem II)**

Prerequisite: A grade of C or better in MTTD 380. This course will provide the student with the additional study of Mastercam Volume 2, Solids, and manual programming along with Mastercam Wire EDM programming. Mastercam Level II certification will be offered. One to three field trips to see industry applications are mandatory. Students will be required to work as a student assistant in one section of MTTD 235L. 6 lecture hours, 16 laboratory hours.

**Music – Audio Recording**

**MUSA 100 Introduction to Audio Recording** **2 hrs (Sem I, II)**

A survey class of basic equipment needs, acoustics, listening skills, industry needs, industry standards, career opportunities related to audio recording. 2 lecture hours.

**MUSA 101 Audio Recording I** **2 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MUSA 100. Basic audio equipment needs, use, set-up, and studio recording techniques. 2 lecture/laboratory hours.

**MUSA 102 Audio Recording II** **2 hrs (Sem I, II)**

Prerequisite: MUSA 101. Intermediate studio and recording techniques including multi-track recording, digital recording, and mix-down. 2 lecture/laboratory hours.

**MUSA 103 Audio Recording III** **2 hrs (Sem I, II)**

Prerequisite: MUSA 101. Use of MIDI, mastering, and computer applications. 2 lecture/laboratory hours.

**MUSA 201 Digital Audio Recording** **3 hrs (Sem I, II)**

Prerequisite: MUSA 103. An advanced, hands-on approach to the principles of digital hard disk recording and digital audio editing within the Pro Tools environment. 3 lecture/laboratory hours.

**MUSA 202 Audio Recording Production** **3 hrs (Sem I, II)**

Prerequisite: MUSA 201. A project oriented class in which students will produce, record, mix, edit, and master their own CDs. Topics will include pre-production meetings, production scheduling and organization, budgeting, problem solving, live recording, project mixing, project mastering in Pro Tools, and final CD pressing complete with finished cover art. 3 lecture/laboratory hours.

**Music Computer MIDI**

**MUSC 213 Computer-MIDI Laboratory Elective** **2 hrs (Sem I, II)**

Prerequisite: Permission of instructor. Selected topics using the Macintosh/synthesizer lab within the department of music. *May be repeated for credit.* 2 class hours.

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

## Music Ensembles

The following ensembles are required each semester for music majors:

- MUSE 150 Concert Band is required for all brass, percussion and woodwind majors.
- MUSE 153 Chamber Music Ensemble (Brass, Guitar, Percussion, Strings, or Woodwind Ensemble) is required for their respective majors.
- MUSE 160 Concert Choir is required for all voice and piano majors.

### **MUSE 150 Concert Band**

**1 hr (Sem I, II)**

The concert band rehearses three times a week. No audition required. 4 hours rehearsal per week plus additional rehearsal hours as required for tours and performances.

### **MUSN 001 Concert Band**

**Non-credit (Sem I, II)**

Students may play in the concert band on a non-tuition, non-credit basis as an activity of campus life only by special permission of the band director. The band rehearses three times a week. No audition required. 4 hours rehearsal per week plus additional rehearsal hours as required for tours and performances.

### **MUSE 151 Jazz Ensemble**

**1 hr (Sem I, II)**

The jazz ensemble meets twice weekly. Audition required. 4 hours rehearsal per week plus additional rehearsal hours as required for tours and performances.

### **MUSN 003 Jazz Ensemble**

**Non-credit (Sem I, II)**

Students may play in the jazz ensemble on a non-tuition, non-credit basis as an activity of campus life only by special permission of the band director. The ensemble meets twice weekly. Audition required. 4 hours rehearsal per week plus additional rehearsal hours as required for tours and performances.

### **MUSE 152 Pep Band**

**1 hr (Sem I, II)**

The pep band plays for most home basketball games. Open to all brass, woodwind, and percussion players. Audition required. 2 hours rehearsal per week plus additional rehearsal hours as required for tours and performances.

### **MUSN 005 Pep Band**

**Non-credit (Sem I, II)**

Students may play in the pep band on a non-tuition, non-credit basis as an activity of campus life only by special permission of the band director. The pep band plays for most home basketball games. Open to all brass, woodwind, and percussion players. Audition required. 2 hours rehearsal per week plus additional rehearsal hours as required for tours and performances.

### **MUSE 153 Chamber Music Ensemble**

**1 hr (Sem I, II)**

Literature for small vocal and instrumental ensembles such as madrigal singers, brass ensemble, blues ensemble, acoustic pop, woodwind ensemble, string ensemble, guitar ensemble, country music, and percussion ensemble. Audition required. 2 hours rehearsal per week plus additional rehearsal hours as required for tours and performances.

### **MUSN 007 Chamber Music Ensemble**

**Non-credit (Sem I, II)**

Students may play in any chamber ensemble on a non-tuition, non-credit basis as an activity of campus life only by special permission of the ensemble director. Literature for small vocal and instrumental ensembles such as madrigal singers, brass ensemble, blues ensemble, acoustic pop, woodwind ensemble, string ensemble, guitar ensemble, country music, and percussion ensemble. Audition required. 2 hours rehearsal per week plus additional rehearsal hours as required for tours and performance.

### **MUSE 160 Concert Choir**

**1 hr (Sem I, II)**

The study and performance of diversified choral literature from all stylistic periods. No audition required. Membership for the entire year desired but not required. 3 hours rehearsal plus additional rehearsal hours as required for tours and performances.

### **MUSN 002 Concert Choir**

**Non-credit (Sem I, II)**

Students may sing with the choir on a non-tuition, non-credit basis as an activity of campus life only by special permission of the choral director. 3 hours rehearsal plus additional hours as required for tours and performances.

NOTE: Membership into all musical organizations is open to all University students. No audition is required for membership into the Concert Band or Concert Choir. Auditions for Jazz Ensemble and Show Choir are held during the first week of classes each semester. Students may earn one hour of credit per semester for any music ensemble for up to four semesters.

**MUSE 161 Vincennes University Connection** **1 hr (Sem I, II)**

The Vincennes University Connection is a music performance ensemble that focuses on ensemble repertoire from the American Musical Theatre genre, incorporating music, movement, and theatrical elements. The ensemble performs throughout the year on and off-campus. Audition is required each semester. Membership for the entire year is desired, but not required or guaranteed. 3 in-class rehearsal hours per week plus additional rehearsal hours as required for tours and performances. *May repeat for credit.*

**MUSN 004 Vincennes University Connection** **Non-credit (Sem I, II)**

Students may sing with the Vincennes University Connection on a non-tuition, non-credit basis as an activity of campus life only by special permission of the choral director. Audition required. 3 hours rehearsal plus additional rehearsal hours as required for tours and performances.

**MUSE 162 Handbell Ensemble** **1 hr (Sem I, II)**

The handbell ensemble performs a variety of music ranging from classical to popular. Open to all University students. Music reading ability desired. Audition required. 2 hours rehearsal per week plus additional rehearsal hours as required for tours and performances.

**MUSN 006 Handbell Ensemble** **Non-credit (Sem I, II)**

Students may play in the handbell ensemble on a non-tuition, non-credit basis as an activity of campus life only by special permission of the choral director. Audition required. 2 hours rehearsal per week plus additional rehearsal hours as required for tours and performances.

**MUSE 164 Gospel Choir Ensemble** **1 hr (Sem I, II)**

The Gospel choir ensemble is designed to provide students with an in-depth study of contemporary and traditional Gospel styles, dealing with historical background of American Gospel influences. The ensemble will also perform throughout the state of Indiana. One 3-hour rehearsal plus additional rehearsal hours required for performances.

**Music**

**MUSM 100 Voice Class** **2 hrs (Sem I, II)**

This is an introductory class to the correct use of the singing voice and gives attention to the topics of posture, breath management, tone quality, extension of range, musicianship, interpretation, and stage presence. As a group, sometimes individually, the students will sing folksongs, songs from musical theater, and art songs. The class is open to students with no, or very little, previous formal training in voice. 2 class hours.

**MUSM 101 Beginning Piano Class** **1 hr (Sem I, II)**

Designed for students with little or no previous experience in piano. Includes introductory keyboard and reading skills, selected scales, selected triads and arpeggios, sight-reading, and repertoire. *MUSP 211 and 213 Private Piano Lesson Elective will be accepted by the Music Department as course substitutions for MUSM 101, 102, 201 and 202.* A laboratory fee will be charged. 2 class hours.

**MUSM 102 Intermediate Piano Class** **1 hr (Sem I, II)**

Prerequisite: A grade of C or better in MUSM 101. Includes major and minor scales, all triads and inversions, chord progressions in all keys using standard cadential patterns, harmonization of melodies, one-line transposition, sight-reading, and repertoire. Designed to prepare music majors for piano proficiency exam. *MUSP 211 and 213 Private Piano Lesson Elective will be accepted by the Music Department as course substitutions for MUSM 101, 102, 201 and 202.* A laboratory fee will be charged. 2 class hours.

**MUSM 104 Musical Theatre Production** **1 hr (Sem I, II)**

Course is open by audition/interview only and is open to any student enrolled at VU. Students participate in a fully mounted stage production in one of the following capacities: Performer (Actor/Singer/Dancer); Technical Designer/Crew (Set, lighting, sound, or scene crew); Stage Manager/Assistant Stage Manager; Artistic Staff Assistants (Assistant Director, Musical Director, or Choreographer) or Publicity/Box Office/Dramaturg. *(All Fine Arts Theatre majors and Music Theatre majors must enroll in MUSM 104 or THEA 101 for a total of two semesters.)* Hours to be arranged.

**MUSM 105 Introduction to Music Theory** **3 hrs (Sem I)**

A study of the basic elements of music theory: pitch and rhythm notation, meters, scales, key signatures, intervals, and triads through ear training, dictation, sight singing, and basic keyboard skills. Offered as a preparatory course for MUSM 115 Music Theory I. Also recommended as a beginning musicianship course for non-music majors. A laboratory fee will be charged. 3 class hours.

**MUSM 113 Musical Skills I** **1 hr (Sem I)**

Corequisite: MUSM 115. Sight singing of simple rhythmic patterns intervals, and diatonic melodies in two clefs. Harmonic and melodic dictation of material from MUSM 115. Keyboard harmonization of simple chord progressions. A laboratory fee will be charged. 2 class hours, 2 laboratory hours.

**MUSM 114 Musical Skills II** **1 hr (Sem II)**

Prerequisite: A grade of C or better in MUSM 113. Corequisite: MUSM 116. Sight singing of compound rhythm patterns and diatonic melodies in four clefs. Harmonic and melodic dictation of diatonic materials. Keyboard harmonization of progressions using all diatonic triads. A laboratory fee will be charged. 2 class hours, 2 laboratory hours.

**MUSM 115 Music Theory I** **3 hrs (Sem I)**

Prerequisite: Satisfactory score on music theory placement test. Corequisite: MUSM 113. A study of musical notation, scales, intervals, triads, cadences, and diatonic harmony through written exercises, analysis, part writing, and keyboard harmony. 3 class hours.

**MUSM 116 Music Theory II** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in MUSM 115. Corequisite: MUSM 114. A study on non-harmonic materials, dominant seventh chords, secondary dominants, tonicization, and elementary counterpoint through part writing, analysis, and keyboard harmony. 3 class hours.

**MUSM 118 Music Appreciation** **3 hrs (Sem I, II)**

An introductory course to music stressing the art of listening with discussions of prominent composers, their works, and their styles. No previous knowledge of music required. *This course is a transferable course.* 3 class hours.

**MUSM 140 Beginning Guitar Class** **2 hrs (Sem I, II)**

A beginning class in the study of guitar. Reading, fingering, chords, and tuning are emphasized. Most common first position chords, with a considerable focus upon popular music. Students will learn to read the treble clef. Limited to 15 students. A laboratory fee will be charged. 2 class hours.

**MUSM 141 Intermediate Guitar Class** **2 hrs (Sem I, II)**

An extensive study of music theory as it applies to the guitar. Chord construction theory, pentatonic major and minor scales, the modes, all diminished, augmented chords, and styles and techniques for the modern guitarist. A laboratory fee will be charged. 2 class hours.

**MUSM 142 String Techniques I** **2 hrs (Sem I, II)**

Includes the study of basic playing and teaching techniques, fingering, and tunings on stringed instruments, primarily violin and viola. Designed as an elective for music majors, but open to all students as a Humanities elective. A minimum of three hours practice a week is recommended. A laboratory fee will be charged. 2 class hours.

**MUSM 143 String Techniques II** **2 hrs (Sem I, II)**

Includes the study of basic playing and teaching techniques, fingerings, and tunings on stringed instruments, primarily cello and string bass. Designed as an elective for music majors, but open to all students as a Humanities elective. A minimum of three hours practice a week is recommended. A laboratory fee will be charged. 2 class hours.

**MUSM 144 Brass Techniques** **2 hrs (Sem I, II)**

The study of basic playing and teaching techniques, fingerings and slide positionings, correct embouchure, and tone production on at least three brass instruments. Designed as an elective for instrumental music majors, but open to all students. A minimum of three hours practice a week is recommended. A laboratory fee will be charged. 2 class hours.

**MUSM 145 Woodwind Techniques** **2 hrs (Sem I, II)**

The study of basic playing and teaching techniques, fingerings, and tone production on at least three woodwind instruments. Designed as an elective for instrumental music majors, but open to all students. A minimum of three hours practice a week is recommended. A laboratory fee will be charged. 2 class hours.

**MUSM 146 Percussion Techniques** **2 hrs (Sem I, II)**

The study of basic playing and teaching techniques on percussion instruments including snare drum rudiments and mallet techniques. Designed as an elective for instrumental music majors, but open to all students. A minimum of three hours practice a week is recommended. A laboratory fee will be charged. 2 class hours.

**MUSM 150 Introduction to Music History** **2 hrs (Sem I, II)**

Historical survey of musical style in Western art music from the Middle Ages to the present, with emphasis on critical listening and score reading. Includes introduction to basic research and writing skills pertaining to music. The ability to read music is essential. Required for music majors. 3 class hours.

**MUSM 151 Introduction to World Music** **2 hrs (Sem I, II)**

A survey of non-Western musical cultures and Western folk traditions. Emphasis is placed on critical listening, reading, basic research, and writing skills. The ability to read music is essential. Required for music majors. 3 class hours.

- MUSM 201 Advanced Piano Class I** **1 hr (Sem I, II)**  
Prerequisite: A grade of C or better in MUSM 102. Includes all major and minor scales, transposition of simple two and three-part textures, harmonization of melodies using all diatonic and selected secondary dominant chords, simple improvisation, sight-reading, and *Private Piano Lesson Elective will be accepted by the Music Department as course substitutions for MUSM 101, 102, 201 and 202.* A laboratory fee will be charged. 2 class hours.
- MUSM 202 Advanced Piano Class II** **1 hr (Sem II)**  
Prerequisite: A grade of C or better in MUSM 201. Continued development of performance and functional skills. Includes scales, triads and seventh chords, harmonization, accompanying patterns, transposition, improvisation, sight-reading, and repertoire. Designed to further prepare music majors for piano proficiency exam. *MUSP 211 and 213 Private Piano Lesson Elective will be accepted by the Music Department as course substitutions for MUSM 101, 102, 201 and 202.* A laboratory fee will be charged. 2 class hours.
- MUSM 203 Survey of Guitar History** **3 hrs (Sem II)**  
This course is designed to acquaint students with the evolution of the modern guitar from its predecessors. Early lute music through contemporary styles will be examined and the luthiery of guitars from related instruments such as the vihuela up to and including twenty-first century prototypes. Audio visuals will be utilized to enhance the students' appreciation of the broad range of playing styles and techniques employed by guitarists since the inception of the instrument. 3 lecture hours.
- MUSM 204 Topics in Music** **3 hrs (Sem I, II)**  
This course is a lecture/listening course designed to study one of the many styles of modern music that have developed since the turn of the twentieth century. See course schedule for subtitle. Repeatable for credit only for different special topic areas. 3 class hours.
- MUSM 205 Business of Entertainment<sup>R/W/S</sup>** **3 hrs (Sem I, II)**  
Survey of the record industry, career options, studio management, music economics, legal matters, promotion, and music publishing and copyright. 3 lecture hours.
- MUSM 206 Music Business<sup>R/W/S</sup>** **3 hrs (Sem I, II)**  
This course is designed to enlighten music majors as to the problems inherent in designing and maintaining music corporations, publishing companies, recording facilities and record labels. Artist promotion and public relations will be studied, along with marketing strategies. 3 lecture hours.
- MUSM 207 History of Jazz, Blues and Rock** **3 hrs (Sem I, II)**  
This course is designed to study the development of these unique American genres that have influenced music throughout the world. No previous knowledge of music required. 3 lecture hours.
- MUSM 208 History of American Folk, Bluegrass and Country** **3 hrs (Sem I, II)**  
This course is designed to study the development of these unique American genres that have influenced music throughout the world. No previous knowledge of music required. 3 lecture hours.
- MUSM 210 Composition** **1 hr (Sem I, II)**  
Prerequisite: MUSM 115 and 116. Independent creative writing in various styles, utilizing the techniques acquired in the study of music theory. *May be repeated for credit.* A laboratory fee will be charged. 1 seminar hour and 1/2 hour private lesson.
- MUSM 211 Jazz Improvisation** **2 hrs (Sem I, II)**  
An introduction to basic improvisational techniques used in the performance of jazz and popular music including scales, modes, chord symbols, chord progressions, and dictation. 2 class hours.
- MUSM 213 Musical Skills III** **1 hr (Sem I)**  
Corequisite: MUSM 215. Sight singing of diatonic and chromatic melodies and irregular meters in four clefs. Study of secondary function and modulation. Harmonic and melodic dictation of diatonic and chromatic materials. Keyboard harmonization of progressions using diatonic seventh chords and modulation. A laboratory fee will be charged. 2 class hours, 2 laboratory hours.
- MUSM 214 Musical Skills IV** **1 hr (Sem II)**  
Prerequisite: A grade of C or better in MUSM 213. Corequisite: MUSM 216. Sight singing of modal melodies, extended tertian and quartal harmonies, and exotic scales in four clefs. Study of secondary function and modulation. Harmonic and melodic dictation of modulatory and some twentieth-century materials. Keyboard harmonization of progressions using secondary function, borrowed chords, and chromatic harmony, as well as basic jazz harmonies and symbols. A laboratory fee will be charged. 2 class hours, 2 laboratory hours.

**MUSM 215 Music Theory III** **3 hrs (Sem I)**  
 Prerequisite: MUSM 116. Corequisite: MUSM 213. Diatonic and chromatic harmony involving modulation to remote keys, form and analysis. Homophonic forms, polyphonic techniques, and creative writing. 3 class hours.

**§MUSM 216 Music Theory IV<sup>R/W/S</sup>** **3 hrs (Sem II)**  
 Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, *and* a grade of C or better in MUSM 215. Corequisite: MUSM 214. Extension of common practice principles into the Twentieth Century. Chromatic harmony, tonal and atonal harmonic practices, and Twentieth Century analytical techniques. 3 class hours.

**MUSM 222 Basic Conducting** **2 hrs (Sem I, II)**  
 Study of fundamental conducting techniques and the development of a fluent baton technique through the use of exercises and instrumental as well as choral scores. 2 class hours.

**MUSM 225 Music in the Elementary Classroom** **3 hrs (Sem I, II)**  
 A study of music concepts, materials, and techniques for developing musical perception and appreciation in the preschool and elementary classroom. 3 class hours.

**MUSM 240 Advanced Guitar Class** **2 hrs (Sem I, II)**  
 A continuation of MUSM 141 with continued exploration of chord construction theory for guitarists, an analysis of the techniques featured in diverse styles of accompaniment and improvisation, altered tunings, and a survey of various guitar literature and recordings from earlier periods through New Age music. A laboratory fee will be charged. 2 class hours.

**MUSM 287 Italian and English Diction** **1 hr (Sem I, II)**  
 Concurrent enrollment in applied voice. An introduction of the basic rules of singing in Italian and English, with an emphasis on written and oral exercises. The International Phonetic Alphabet will be studied. 2 class hours.

#### **Private Music Lessons**

Placement audition and consent of department chair is required for enrollment in any private music lesson course--a course with a prefix of MUSB, MUSD, MUSG, MUSO, MUSP, MUSS, MUSV, or MUSW. Private instruction is available in four levels of difficulty:

- Elective: For non-music majors; may be taken as a half-hour lesson (1 credit hour) or a one-hour lesson (2 credit hours) depending on available staffing.
- Minor: For music majors working in their secondary private lesson area; may be taken as a half-hour lesson (1 credit hour) or a one-hour lesson (2 credit hours).
- Pre-major: For music majors who have not reached the proficiency required for the freshman major level on their principal instrument; may be taken as a one-hour lesson (2 credit hours) only.
- Major: Principle instrument for those planning to major in music performance, music education, music business, church music, theory, composition, and/or music therapy; may be taken as a one-hour lesson (2 credit hours) only.

All stated technical and literature requirements represent minimal standards and are intended as guidelines for achievement. Detailed information regarding technical and literature requirements is available from the Music Department.

For each one-half hour lesson per week, the student receives one semester hour of credit. *All music majors* taking private music lessons are required to take a jury examination at the end of each semester of study. Attendance and participation in student recitals and concerts is required by *all music majors*. Each one half-hour lesson per week required a minimum of five hours practice per week.

**One half-hour private lesson per week (1 credit hour) carries an Applied Music Fee. A one-hour private lesson per week (2 credit hours) carries an Applied Music Fee.**

*Private lessons in each of the levels of difficulty may be repeated for credit only four times for the same instrument.*

**MUSB 211 Brass Elective** **1 hr (Sem I, II)**  
**MUSB 213 Brass Elective** **2 hrs (Sem I, II)**  
**MUSB 214 Brass Pre-Major** **2 hrs (Sem I, II)**  
**MUSB 215 Brass Minor** **1 hr (Sem I, II)**  
**MUSB 216 Brass Minor** **2 hrs (Sem I, II)**

Private Music Lesson. Fundamentals of brass playing including scales and arpeggios, technical studies, etudes, and appropriate literature. During the second year, continued studies in brass technique at the intermediate level including appropriate scales and arpeggios, technical studies, and appropriate literature.

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

**MUSB 217 Brass Major** **2 hrs (Sem I, II)**  
Private Music Lesson. Fundamentals of proper breathing, tone production, embouchure, and attack. Major scales and arpeggios, technical studies, etudes, and appropriate literature. During the second year, more advanced technical studies, major and minor scales and arpeggios, and appropriate literature to include at least one major sonata or concerto.

**MUSB 290 Brass Major Recital** **2 hrs (Sem I, II)**  
Prerequisite: At least three semesters of major level study on a brass instrument and permission of the music faculty. This course is equivalent to the fourth semester of major level study and includes the presentation of a recital of twenty to thirty minutes in length in lieu of a jury examination. This course should be taken during the last semester of degree study. 1 class hour.

**MUSD 211 Percussion Elective** **1 hr (Sem I, II)**  
**MUSD 213 Percussion Elective** **2 hrs (Sem I, II)**  
**MUSD 214 Percussion Pre-Major** **2 hrs (Sem I, II)**  
**MUSD 215 Percussion Minor** **1 hr (Sem I, II)**  
**MUSD 216 Percussion Minor** **2 hrs (Sem I, II)**

Private Music Lesson. The fundamentals of percussion technique will be emphasized in lessons including scales and arpeggios for mallet instruments, stick control and rhythmic studies for snare drum and drum set, and tuning for timpani. Appropriate method books and solo literature will be studied. During subsequent semesters of study, students will be exposed to more advanced levels of study on mallets, snare drum, drum set, and timpani including appropriate scales, arpeggios, etudes, and solo literature. These courses are designed for non-music majors who wish to further their performance skills, non-percussionists wanting to learn about percussion, percussion majors who are preparing for major level of study, and students minor-ing in music.

**MUSD 217 Percussion Major** **2 hrs (Sem I, II)**  
Private Music Lesson. This course is designed for students majoring in percussion at the major level of study. Studies will include major and minor scales/arpeggios and 4-mallet technique for mallet instruments, rudiments and stick control techniques for snare drum, musical styles and chart reading for drum set, and tuning and mallet techniques for timpani. Appropriate method books, etudes, and solo literature will be studied. During the second year, more advanced performance techniques, music etudes, and solo literature will be explored on each instrument.

**MUSD 290 Percussion Major Recital** **2 hrs (Sem I, II)**  
Prerequisite: At least three semesters of major level study in percussion and permission of the music faculty. This course is equivalent to the fourth semester of major level study and includes the presentation of a recital twenty to thirty minutes in length in lieu of a jury examination. This course should be taken during the last semester of degree study. 1 class hour.

**MUSG 211 Guitar Elective** **1 hr (Sem I, II)**  
**MUSG 213 Guitar Elective** **2 hrs (Sem I, II)**  
**MUSG 214 Guitar Pre-Major** **2 hrs (Sem I, II)**  
**MUSG 215 Guitar Minor** **1 hr (Sem I, II)**  
**MUSG 216 Guitar Minor** **2 hrs (Sem I, II)**

Private Music Lesson. Prerequisite: A grade of C or better in MUSM 140. Fundamentals of classical guitar including scales, arpeggios, chordings, etudes, and appropriate literature from beginning methods books. During the second year, continued study in classical guitar at the intermediate level including appropriate technical studies and selected literature.

**MUSG 217 Guitar Major** **2 hrs (Sem I, II)**  
Private Music Lesson. Studies in classical guitar emphasizing scales using shifting positions, arpeggios, studies from Carcassi, and appropriate literature. During the second year, continued scale, arpeggios, and chord studies through higher positions. Etudes, studies, and selected pieces by Aguado, Sor, Giuliani, Villa-Lobos, and Tarrega.

**MUSG 290 Guitar Major Recital** **2 hrs (Sem I, II)**  
Prerequisite: At least three semesters of major level study on guitar and permission of the music faculty. This course is equivalent to the fourth semester of major level study and includes the presentation of a recital of twenty to thirty minutes in length in lieu of a jury examination. This course should be taken during the last semester of degree study. 1 class hour.

**MUSO 211 Organ Elective** **1 hr (Sem I, II)**  
**MUSO 213 Organ Elective** **2 hrs (Sem I, II)**  
**MUSO 214 Organ Pre-Major** **2 hrs (Sem I, II)**  
**MUSO 215 Organ Minor** **1 hr (Sem I, II)**  
**MUSO 216 Organ Minor** **2 hrs (Sem I, II)**

Private Music Lesson. Prerequisite: A grade of C or better in MUSM 101. Includes manual and pedal technique; principles of registration; plus studies from the Flor Peeters, Gleason, and other organ method

books. Two-, three-, and four-part manual and pedal playing studies; chorale preludes; and works by the great Baroque organ composers will be explored.

**MUSO 217 Organ Major** **2 hrs (Sem I, II)**  
Private Music Lesson. Prerequisite: Permission of organ instructor. Includes manual and pedal technique; principles of registration; plus studies from the Flor Peeters, Gleason, and other organ method books. Two-, three-, and four-part manual and pedal playing studies; chorale preludes; and improvisation will be explored. During the second year more advanced manual and pedal studies; pedal scales; and selected compositions by Baroque, Classical, and Romantic composers will be included.

**MUSO 290 Organ Major Recital** **2 hrs (Sem I, II)**  
Prerequisite: At least three semesters of major level study on organ and permission of the music faculty. This course is equivalent to the fourth semester of major level study and includes the presentation of a recital twenty to thirty minutes in length in lieu of a jury examination. This course should be taken during the last semester of degree study. 1 class hour.

**MUSP 211 Piano Elective** **1 hr (Sem I, II)**  
**MUSP 213 Piano Elective** **2 hrs (Sem I, II)**  
**MUSP 214 Piano Pre-Major** **2 hrs (Sem I, II)**  
**MUSP 215 Piano Minor** **1 hr (Sem I, II)**  
**MUSP 216 Piano Minor** **2 hrs (Sem I, II)**  
Private Music Lesson. Prerequisite: A grade of C or better in MUSM 101. Includes the study of functional piano skills such as scales, triads and seventh chords, harmonization, transposition, improvisation, and sight-reading. Repertoire, harmony, and technique studies at the appropriate level will also be covered. *MUSP 211 and 213 will be accepted by the Music Department as course substitutions for MUSM 101, 102, 201 and 202.*

**MUSP 217 Piano Major** **2 hrs (Sem I, II)**  
Private Music Lesson. Prerequisite: Permission of piano instructor. Emphasizes repertoire by the great piano composers, plus appropriate technique studies. Includes Haydn, Mozart, and Beethoven sonatas; Chopin waltzes, preludes, nocturnes, and etudes; Brahms intermezzos and rhapsodies; Bach preludes and fugues; twentieth-century works; and more.

**MUSP 290 Piano Major Recital** **2 hrs (Sem I, II)**  
Prerequisite: At least three semesters of major level study on piano and permission of the music faculty. This course is equivalent to the fourth semester of major level study and includes the presentation of a recital twenty to thirty minutes in length in lieu of a jury examination. This course should be taken during the last semester of degree study. 1 class hour.

**MUSS 211 Strings Elective** **1 hr (Sem I, II)**  
**MUSS 213 Strings Elective** **2 hrs (Sem I, II)**  
**MUSS 214 Strings Pre-Major** **2 hrs (Sem I, II)**  
**MUSS 215 Strings Minor** **1 hr (Sem I, II)**  
**MUSS 216 Strings Minor** **2 hrs (Sem I, II)**  
Private Music Lesson. Basic string fundamentals including posture, left-hand position, and bow arm technique. Appropriate scales and arpeggios in first position. Easy pieces and duets. During the second year, continued studies in bowing and fingering technique using intermediate method books. Appropriate etudes and literature.

**MUSS 217 Strings Major** **2 hrs (Sem I, II)**  
Private Music Lesson. Fundamentals of bowing and fingering including all major and minor scales and arpeggios in two octaves, technical studies, etudes, and solo literature. During the second year, continued emphasis on left hand and bow arm technique. Advanced etudes and technical studies including major and minor scales and arpeggios through three octaves. Repertoire to include movements from appropriate sonatas and concertos.

**MUSS 290 Strings Major Recital** **2 hrs (Sem I, II)**  
Prerequisite: At least three semesters of major level study on a strings instrument and permission of the music faculty. This course is equivalent to the fourth semester of major level study and includes the presentation of a recital twenty to thirty minutes in length in lieu of a jury examination. This course should be taken during the last semester of degree study. 1 class hour.



<b>MUSV 211 Voice Elective</b>	<b>1 hr (Sem I, II)</b>
<b>MUSV 213 Voice Elective</b>	<b>2 hrs (Sem I, II)</b>
<b>MUSV 214 Voice Pre-Major</b>	<b>2 hrs (Sem I, II)</b>
<b>MUSV 215 Voice Minor</b>	<b>1 hr (Sem I, II)</b>
<b>MUSV 216 Voice Minor</b>	<b>2 hrs (Sem I, II)</b>

Private Music Lesson. The fundamentals of vocal technique (posture, breath control, resonance, tone quality, diction, and phrasing) will be emphasized in these private lessons. In the first year, repertoire will include seventeenth and eighteenth century Italian arias and art songs and simpler contemporary art songs in English. During the second year, there will be a continued emphasis on vocal technique with more difficult songs in English, Italian and German being studied.

**MUSV 217 Voice Major** **2 hrs (Sem I, II)**

Private Music Lesson. The voice major student will learn and review the components of good vocal technique through individualized vocalizes and repertoire. First year studies would include works from the seventeenth and eighteenth century Italian art songs and arias, English and American art songs by Purcell, Handel, Barber and Britten. During the second year, there will be an emphasis on agility, flexibility, range extension, musicianship, interpretation and stage presence. The repertoire will include German lieder by Schubert, Schumann and Brahms, along with more advanced Italian and English art songs, and the easier oratorio and opera arias by Handel, Puccini, Mozart and Menotti.

**MUSV 290 Voice Major Recital** **2 hrs (Sem I, II)**

Prerequisite: At least three semesters of major level study in voice and permission of the music faculty. This course is equivalent to the fourth semester of major level study and includes the presentation of a recital twenty to thirty minutes in length in lieu of a jury examination. This course should be taken during the last semester of degree study. 1 class hour.

**MUSW 211 Woodwinds Elective** **1 hr (Sem I, II)**

**MUSW 213 Woodwinds Elective** **2 hrs (Sem I, II)**

**MUSW 214 Woodwinds Pre-Major** **2 hrs (Sem I, II)**

**MUSW 215 Woodwinds Minor** **1 hr (Sem I, II)**

**MUSW 216 Woodwinds Minor** **2 hrs (Sem I, II)**

Private Music Lesson. Fundamentals of woodwind technique including scales, arpeggios, technical studies, etudes, and appropriate literature. During the second year, continued studies in woodwind technique at the intermediate level including appropriate scales and arpeggios, technical studies, etudes, and appropriate literature.

**MUSW 217 Woodwinds Major** **2 hrs (Sem I, II)**

Private Music Lesson. Fundamentals of proper tone production and articulation. Major scales, major and dominant seventh arpeggios. Technical studies, etudes, and appropriate literature. During the second year, more advanced technical studies including minor scales, minor and diminished seventh arpeggios, and appropriate literature to include at least one major sonata or concerto.

**MUSW 290 Woodwinds Major Recital** **2 hrs (Sem I, II)**

Prerequisite: At least three semesters of major level study on a woodwinds instrument and permission of the music faculty. This course is equivalent to the fourth semester of major level study and includes the presentation of a recital twenty to thirty minutes in length in lieu of a jury examination. This course should be taken during the last semester of degree study. 1 class hour.

**Nursing, Practical**

**§NURP 100 Fundamentals of Nursing** **5 hrs (Sem I)**

Prerequisite: Admission to the Practical Nursing Program. Corequisites: NURP 105 and 110. Through the introduction of the Nursing Department Philosophy and Conceptual Framework, students are introduced to the concepts of nursing, client, health, environment, and adaptation. This course is designed to assist beginning practical nursing students in acquiring a foundation of basic nursing theory and developing clinical skills, which will insure provision of safe, effective nursing care. Students are introduced to the client as a holistic being. An overview of basic legal and ethical aspects and the art of caring is presented. The nursing process as the tool to organize and deliver care is introduced. Fundamental skills and knowledge used in basic nursing assessment and care related to infection prevention and control, safety, immobility, ambulation, comfort, sleep, normal nutrition, elimination, oxygenation, circulation, fluid and chemical balance, skin and wound care, medication administration, principles of teaching and learning, and communication are covered. Focus is on helping clients adapt to basic stressors, as well as on health promotion. The laboratory is utilized to assist students in acquiring basic skills. 3 lecture hours, 6 laboratory hours.

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**NURP 105 Nursing I** **6 hrs (Sem I)**  
Corequisites: NURP 100 and 110. This course utilizes the fundamental knowledge and skills from NURP 100, which will insure provision of safe, effective, nursing care to adult clients of varying age groups. It is designed to assist students in applying the nursing process to assist clients in achieving optimal wellness when confronted with common health stressors associated with the immune, musculo-skeletal, gastrointestinal, respiratory, circulatory, and endocrine systems. Integrated within the therapeutic needs are effective communication, caring, client education, nutritional modifications and commonly used drugs with emphasis on the basic classifications and the physiologic effects on the body. Students are provided the opportunity through clinical experiences to utilize the nursing process to meet the basic needs of clients with non-complex medical and/or surgical problems. 4 lecture hours, 6 clinical laboratory hours.

**NURP 110 Basic Pharmacology** **2 hrs (Sem I)**  
Corequisites: NURP 100 and 105. In this course, principles of pharmacology are emphasized with an overview of the drug classifications. The nurse's role in the administration of medication is introduced. Methods of dosage calculations and review of mathematical concepts are included. 2 lecture hours.

**NURP 111 Basic Pharmacology Discussion** **1 hr (Sem I)**  
Corequisite: NURP 110. This course is designed to be a companion course to NURP 110. Students will further explore topics covered in the companion course in order to improve understanding and retention of nursing concepts. 1 class hour.

**NURP 150 Nursing II** **8 hrs (Sem II)**  
Prerequisites: NURP 100, NURP 105, NURP 110, PSYC 142; LFSC 107/107L or LFSC 111/111L and LFSC 112/112L. Corequisites: NURP 155, 160, and 165. This course is a continuation of NURP 105 and continues to utilize and build on the fundamental knowledge and skills from NURP 100. It is designed to assist students in applying the nursing process to adult clients of varying age groups who are experiencing common health stressors associated with the neurosensory, integumentary, urinary, and reproductive systems and individuals experiencing cancer and the stressor of surgery. Integrated within the therapeutic needs are effective communication, caring, client education, nutritional modifications and commonly used drugs with emphasis on the basic classifications and the physiologic effects on the body. Students are provided the opportunity through clinical experiences to utilize the nursing process in customizing a plan of care for clients with moderately complex medical and/or surgical problems. 4 lecture hours, 22.5 clinical laboratory hours per week for 8 weeks.

**NURP 155 Geriatric Nursing** **3 hrs (Sem II)**  
Prerequisites: NURP 100, NURP 105, NURP 110, PSYC 142; LFSC 107/107L or LFSC 111/111L and LFSC 112/112L. Corequisites: NURP 150, 160 and 165. This course looks at the physical, mental, and psychosocial aspects of aging and at the impact of aging on adaptation to health stressors. Topics covered include physical and functional assessment, normal changes of aging on body systems, common chronic diseases of the elderly, nutrition and pharmacology in the elderly, and health care systems for the elderly. Legal and ethical issues are considered throughout. Students are provided the opportunity through clinical experiences to utilize the nursing process in customizing a plan of care to meet the needs of older adult clients and their families. Observation experiences in community agencies concerned with the health and welfare of the older adult are also provided. 1.5 lecture hours, 22.5 clinical laboratory hours per week for 3 weeks.

**NURP 160 Nursing of Children** **5 hrs (Sem II)**  
Prerequisites: NURP 100, NURP 105, NURP 110, PSYC 142; LFSC 107/107L or LFSC 111/111L and LFSC 112/112L. Corequisites: NURP 150, 155 and 165. This course is designed to develop basic knowledge, skills, and attitudes that are essential to provide safe nursing care to the pediatric client/family experiencing common health stressors. Emphasis is given to normal growth and development, health promotion, and nutrition. Clinical experiences provide students the opportunity to develop skills and to utilize the nursing process to meet the basic needs of the pediatric client/family. Observation experiences are planned in community agencies concerned with child health and wellness to enhance students' knowledge base of growth and developmental principles and pediatric health care. 3 lecture hours, 22.5 clinical laboratory hours per week for 4 weeks.

**NURP 161 Nursing of Children Discussion** **1 hr (Sem II)**  
Corequisite: NURP 160. This course is designed to be a companion course to NURP 160. Students will further explore topics covered in the companion course in order to improve understanding and retention of nursing concepts. 1 class hour.

**NURP 165 Personal and Vocational Issues** **2 hrs (Sem II)**  
Prerequisites: NURP 100, NURP 105, NURP 110, PSYC 142; LFSC 107/107L or LFSC 111/111L and LFSC 112/112L. Corequisites: NURP 150, 155, and 160. This course explores the complexities of the health care system and the issues that practical nurses will confront as they begin a career in practical nursing. Emphasis is placed on the ethical, legal and moral responsibilities, the role, and the expectations of practical nurses in the health care delivery system. Career planning and management, along with discus-

sion of the transition from the role of students to beginning practical nurse practitioners, are included. 2 lecture hours.

### **NURP 200 Nursing III**

**4 hrs (Summer)**

Prerequisites: NURP 150, NURP 155, NURP 160, and NURP 165. Corequisite: NURP 205. This course is a culmination of the practical nursing program. It is designed to build on the knowledge base acquired in previous courses. Beginning leadership and management skills are introduced, and students are given the opportunity to manage care for a group of clients. The course further introduces students to the care of patients experiencing mental and emotional stressors. Emphasis is placed on strategies in communicating therapeutically. Students are provided the opportunity through clinical experiences to utilize the nursing process in developing a plan of care for clients with complex medical and/or surgical problems and to assist clients with mental and emotional stressors. Experiences are also planned in a variety of settings to enhance students' knowledge base of client needs and nursing problems in varying degrees of complexity. 4 lecture hours, 22.5 clinical laboratory hours (8-week theory course; 4-week clinical laboratory).

### **NURP 205 Care of Mother and Newborn**

**5 hrs (Summer)**

Prerequisites: NURP 150, NURP 155, NURP 160 and NURP 165. Corequisite: NURP 200. The focus of this course is on the care of the childbearing woman and family during pregnancy, childbirth, and the puerperium. Includes health promotion for the mother and developing fetus, common stressors of pregnancy, and adaptation needs of the newborn. Clinical experiences in the areas of labor and delivery, postpartum and newborn nursery provide students with the opportunity to utilize the nursing process and to develop skills to meet the needs of the woman, family, and newborn. Experiences are also planned in a variety of settings to enhance students' knowledge base of pre- and postnatal care. 5.5 lecture hours, 22.5 clinical laboratory hours (8-week theory course; 4-week clinical laboratory).

## **Associate Degree Nursing**

### **§NURS 100 Nursing Fundamentals**

**8 hrs (Sem I)**

Prerequisite: Admission to the Associate Degree Nursing Program. Introduces the philosophy and conceptual framework of the curriculum. Basic legal aspects, communication skills, impact of illness and hospitalization on the client, external safety, client teaching and learning, death and dying as they apply to nursing are discussed. The nursing process is taught to organize nursing care as well as to promote client health. The fundamental skills and knowledge used in basic nursing care are covered. Content focuses upon common assessments and nursing interventions to meet the basic physiological needs of oxygenation, normal (basic) nutrition, bowel and urinary elimination, activity and mobility, and sleep and rest. Comfort needs, safety needs, fundamental pharmacological concepts, perioperative care, fluid and electrolytes, and alterations associated with infection and inflammation are included. The laboratory is utilized for the students to acquire basic nursing skills. Clinical laboratory in long-term and acute health care agencies allows students to apply the nursing process when caring for the client with common health problems. Physical assessment skills are also taught in clinical. 5 lecture hours, 4.5 laboratory hours, 4.5 clinical laboratory hours.

### **NURS 101 Nursing Fundamentals Discussion**

**1 hr (Sem I)**

Corequisite: NURS 100. This course is designed to be an elective/companion course to NURS 100. Students will further explore topics covered in the companion course in order to improve understanding and retention of nursing concepts. 1 class hour.

### **NURS 130 Maternal-Newborn Nursing**

**4 hrs (Sem II)**

Prerequisites: NURS 100. Corequisite: NURS 150. Builds on basic curricular concepts and principles. Newborns up to one month of age experiencing hepatic, respiratory, mobility, neurological, cardiovascular and nutritional stressors are covered. Consideration is given to assisting the mother and family with antepartal, labor, birthing, and postpartal stressors. Gynecological stressors and women's health issues are addressed. Acute care facilities are utilized. Students apply the nursing process in the clinical setting when providing care for women and newborns experiencing common stressors. 5 lecture hours, 9 clinical laboratory hours (8-week course).

### **NURS 131 Maternal-Newborn Nursing Discussion**

**1 hr (Sem II)**

Corequisite: NURS 130. This course is designed to be an elective/companion course to NURS 130. Students will further explore topics covered in the companion course in order to improve understanding and retention of nursing concepts. 2 class hours (8 week course).

### **NURS 150 Medical-Surgical Nursing I**

**4 hrs (Sem II)**

Prerequisites: NURS 100. Corequisite: NURS 130. Builds on basic curricular concepts and principles. The nursing process is used when caring for clients with stressors of alterations in acid-base balance, nutritional intake and elimination, nutritional absorption and metabolism, cancer, and musculoskeletal integrity. Nutritional concerns, as they relate to these alterations and stressors, are included. The laboratory is utilized for students to acquire more advanced nursing skills. Students apply the nursing process in the clinical

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cal setting when caring for the adult client with common medical and surgical health problems. 5 lecture hours, 7 clinical laboratory hours, 2 laboratory hours (8-week course).

**NURS 151 Medical-Surgical Nursing I Discussion** **1 hr (Sem II)**

Corequisite: NURS 150. This course is designed to be an elective/companion course to NURS 150. Students will further explore topics covered in the companion course in order to improve understanding and retention of nursing concepts. 2 class hours (8 week course).

**NURS 170 LPN Experiential Credit** **11 hrs (Sem II, Summer)**

Prerequisite: Acceptance into the ADN-RN Completion Program. Licensed Practical Nurses must complete NURS 171 with a grade of C to obtain credit for this course. This course is designed to award advanced placement credit at no charge for first-year nursing knowledge and experience.

**NURS 171 Transitions** **5 hrs (Sem II, Summer)**

Prerequisites: A grade of C or better in LFSC/LFSL 111, LFSC/LFSL 112, and ENGL 101. The curriculum theory base is introduced, as is the role of the Associate Degree nurse. The nursing process is reviewed, with emphasis on the RN role. Core content from the first year ADN program is covered; a pretest determines depth of content coverage. The laboratory provides returning students the opportunity to update those skills that may not have been a part of their recent clinical practice. Several advanced skills are introduced, and an orientation to the clinical agencies is included. Upon completion of NURS 171 with a grade of C or better, students will receive a advanced placement credit in NURS 170. 4 lecture hours, 3 laboratory hours.

**NURS 200 Medical-Surgical Nursing II** **4 hrs (Sem I)**

Prerequisites: NURS 100, 130 and 150, or NURS 171. Corequisites: NURS 230. Continues to build on the basic curricular concepts and principles. The nursing process is used when caring for adult clients with stressors of alterations in respiratory, cardiovascular, peripheral vascular, lower urinary and renal function. Nutritional concerns, as they relate to these alterations and stressors, are included. The nursing process is utilized when providing care for adult clients with multiple common health problems within the acute care setting. 5 lecture hours, 9 clinical laboratory hours (8-week course).

**NURS 201 Medical-Surgical Nursing II Discussion** **1 hr (Sem I)**

Corequisite: NURS 200. This course is designed to be an elective/companion course to NURS 200. Students will further explore topics covered in the companion course in order to improve understanding and retention of nursing concepts. 2 class hours (8 week course).

**NURS 230 Pediatric Nursing** **4 hrs (Sem I)**

Prerequisites: NURS 100, 130 and 150, or NURS 171. Corequisite: NURS 200. The nursing process is used when caring for pediatric clients with alterations of respiratory, musculoskeletal, integumentary, sensory-neurological, abnormal cell growth, and nutritional absorption and metabolism. Students apply the nursing process in the clinical setting in providing care for the client, ages one month through adolescence, with acute and chronic health problems. Emphasis is placed on normal growth and development and health promotion. Nutritional concerns, as they relate to these alterations and stressors, are included. 5 lecture hours, 9 clinical laboratory hours (8-week course).

**NURS 231 Pediatric Nursing Discussion** **1 hr (Sem I)**

Corequisite: NURS 230. This course is designed to be an elective/companion course to NURS 230. Students will further explore topics covered in the companion course in order to improve understanding and retention of nursing concepts. 2 class hours (8 week course).

**NURS 240 Psychosocial Nursing** **4 hrs (Sem II)**

Prerequisites: NURS 200, 230. Corequisites: NURS 250, 260. This course continues to build on curricular concepts and principles. Theories of mental health and illness, neurobiology and legal considerations regarding care of adults and children are addressed. The nursing process is used when caring for the adult client to adapt to stressors of anxiety, mood disorders, personality disorders, psychotic disorders, cognitive disorders, psychoactive substance abuse and violence. The nursing process is also utilized to assist children and adolescents to adapt to behavioral and developmental disorders. Nutritional concerns, as they relate to these alterations and stressors, are included. Students study assessment techniques, and the dynamics of behavioral modification, group dynamics, milieu therapy, and pharmacological therapy. Consideration is also given to impaired professionals and the promotion of mental health for the geriatric client. Acute care and community agencies are utilized. 5 lecture hours, 9 clinical laboratory hours (8-week course).

**NURS 241 Psychosocial Nursing Discussion** **1 hr (Sem II)**

Corequisite: NURS 240. This course is designed to be an elective/companion course to NURS 240. Students will further explore topics covered in the companion course in order to improve understanding and retention of nursing concepts. 2 class hours (8 week course).

**NURS 250 Medical-Surgical Nursing III** **4 hrs (Sem II)**  
Prerequisites: NURS 200 and 230. Co requisites: NURS 240 and 260. Continues to build on curricular concepts and principles. Content focuses upon using the nursing process to assist adult clients with alterations in neurological, sensory, integumentary and endocrine health problems. Nutritional concerns, as they relate to these alterations and stressors, are included. The nursing process is used to provide comprehensive care to the adult client with complex, multiple health problems. Acute care agencies are utilized for clinical experience. 5 lecture hours, 9 clinical laboratory hours (8-week course).

**NURS 251 Medical-Surgical Nursing III Discussion** **1 hr (Sem II)**  
Corequisite: NURS 250. This course is designed to be an elective/companion course to NURS 250. Students will further explore topics covered in the companion course in order to improve understanding and retention of nursing concepts. 2 class hours (8 week course).

**§NURS 260 Issues and Trends<sup>R/W/S</sup>** **2 hrs (Sem II)**  
Prerequisites: NURS 200, 230, ENGL 101 and 102, and SPCH 143 or 148. Corequisites: NURS 240 and 250. Continues to build on curricular concepts and principles. Designed to assist students in development of decision-making skills related to issues and trends in nursing practice. Students participate in detailed presentations, portfolio development, and research paper writing. Emphasizes preparation for entry into practice, licensure, dealing with the ethical and legal dilemmas of professional nursing, delegation, role of nursing in health care and health care delivery systems. 2 lecture hours.

### **Nursing, Bachelor Degree**

**NURS 300 Professional Nursing** **3 hrs (Sem I)**  
Prerequisite: Admission to RN to BSN completion program. Introduction to a systems approach to culturally competent nursing care within the health care system for the baccalaureate prepared registered nurse. Concepts necessary for succeeding in the professional nurse role including the program philosophy, conceptual framework and objectives are presented. The readiness and flexibility of the profession to adapt to a changing society will be discussed as well as the new opportunities for professional development. Other topics presented include nursing theory, health care delivery methods, ethics and values, professionalism and accountability, underserved populations, and current trends in health care. 3 class hours.

**NURS 330 Physical Assessment** **3 hrs (Sem I)**  
Prerequisite: Admission to RN to BSN completion program. Course is designed to assist professional nurses in developing interviewing skills, physical assessment techniques and preventative health interventions when working with diverse and vulnerable populations. Therapeutic communication skills in performing a health assessment will be emphasized. The skills to perform a systematic assessment of diverse individuals and the role of the professional nurse in identifying and communicating normal findings and common deviations from normal will be completed. Cultural and socioeconomic aspects of health assessment will be integrated into the course. 3 class hours.

**NURS 360 Introduction to Nursing Research** **3 hrs (Sem II)**  
Prerequisite: Admission to RN to BSN completion program. This course will introduce to the student the theoretical and research bases on which nursing is built. Students will examine the knowledge that guides nursing interventions and critique published nursing reports. Ethical issues as they relate to research, theory and practice will be discussed as well as the importance for the professional nurse to review current nursing research to maintain currency of practice. 3 class hours.

**NURS 370 Pathophysiology and Pharmacology in Nursing** **7 hrs (Sem I, II)**  
Prerequisite: Admission to RN to BSN completion program. This course focuses on applying principles of nursing, the related sciences and the psychosocial, cultural, and spiritual spheres in understanding the disruption of physiological processes and the human response. Exploring altered physiological processes provide evidenced based rationale for the application of select nursing interventions in the nursing process. Various therapeutic modalities pertinent to select disease processes will be discussed. General principles of pharmacology as they affect client systems and the role of the professional nurse in pharmacodynamics is emphasized. Major drug categories are addressed in terms of mechanism of action, therapeutic effects, side effects and nursing implications. Emphasis will be placed on the role of the professional nurse as an advocate and collaborator, using a holistic approach to assist the client to achieve an optimal level of wellness. 7 class hours.

**NURS 380 Gerontology Nursing** **3 hrs (Sem II)**  
Prerequisite: Admission to RN to BSN completion program or current registered nurse licensure. Current theories of aging are discussed as well as cultural beliefs and traditions for the older adult. Emphasis will be placed on promoting, maintaining and restoring health and independence and the role of the professional nurse in the delivery of care. The needs of older populations who are socially isolated, HIV+, incarcerated,

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homeless, institutionalized, mentally impaired and/or neglected and abused will be discussed. 3 class hours.

**NURS 460 Community Health Nursing** **4 hrs (Sem I)**

Prerequisite: Admission to RN to BSN completion program. The role of the professional nurse in applying the concepts of public health nursing in caring for families with complex health needs within the community is explored. Students will implement principles of health promotion, disease prevention, and health teaching in a multidisciplinary setting. The student will utilize skills in community assessment, program planning and nursing interventions to help identified populations within the community attain and maintain their optimum level of health. 3 class hours, 3 clinical laboratory hours.

**NURS 475 Nursing Leadership and Management** **4 hrs (Sem I)**

Prerequisite: Admission to RN to BSN completion program. Topics presented include health care policy, finance issues in health care, and trends in health care. The role of the professional nurse in applying the principles of leadership, management and ethics in health care across the continuum of care will be emphasized. Students will explore strategies of the professional nurse to efficiently and effectively manage patient care in complex health care settings for diverse populations. 3 class hours, 3 clinical laboratory hours.

**NURS 485 Senior Concentration in Nursing** **4 hrs (Sem II)**

Prerequisite: Admission to RN to BSN completion program. With faculty supervision, the senior student selects a clinical area of practice for an independent 90-hour clinical experience. Students may elect clinical sites which complement their own area of interest or they may select a new area to explore. The student must not be employed in the selected area. The goals of the course include exploration of nursing trends in that clinical area; demonstrated clinical competence and safe nursing practice; and increased knowledge and skill development. 2 class hours, 6 clinical laboratory hours.

**NURS 490 Capstone Experience in Baccalaureate Nursing** **4 hrs (Sem II)**

Prerequisite: Admission to RN to BSN completion program. A course intended to synthesize and integrate the knowledge and skill of nursing and the general and liberal education course work. There will be opportunities for students to experience an area of nursing that is of interest to them and display nursing knowledge, research skills, critical thinking, effective learning, and presentation skills needed to be life-long learners. 4 class hours.

**Office Administration**

**OADM 100 Keyboarding I** **2 hrs (Sem I, II)**

Open to students who have had NO keyboarding training. Fundamentals of machine manipulation, touch keyboarding, centering, tabulation, keyboarding of memos, letters, tables, and reports. Speed, accuracy, and techniques are stressed using word processing software. Upon completion, secretarial majors enroll in OADM 150. 4 lecture/laboratory hours.

**OADM 101 BPA Seminar** **1 hr (Sem I, II)**

This course includes the programs and activities of the co-curricular Business Professionals of America (BPA) and is designed to develop leadership abilities, interest in the American business system, social awareness, and competencies in office occupations. Business Professionals of America has the ability to enhance student participation in professional, civic, service, and social endeavors. Related classroom instruction is provided in each of the skill areas, in human relations, in verbal and written communication techniques, and in general office procedures related to all business majors. *This course may be repeated for credit.* 2 lecture/laboratory hours.

**OADM 107 Business Protocol Seminar** **1 hr (Sem I)**

Individual personal and professional development will be enhanced by this course. Topics to be covered include: first impressions, greetings and introductions, business dress, restaurant etiquette and table manners. Students will be required to attend an evening dinner session. 1 lecture hour.

**OADM 131 Introduction to Word** **1 hr (Sem I, II)**

Students will learn to use Page Set Up and formatting techniques (orientation, margins, tabs, line spacing, tables/columns, insert clip art and insert files). This course will also cover how to use templates, create page breaks, find and replace text and how to save and print documents. How to enhance a document with header/footers and customizing paragraphs will also be covered. The students will use the latest version of Microsoft Word. 1 lecture/laboratory hour.

**OADM 132 Introduction to PowerPoint** **1 hr (Sem I, II)**

Students will learn how to prepare a presentation, edit and enhance slides and customize presentations. Individuals will use the latest version of Microsoft PowerPoint. 1 lecture/laboratory hour.

**OADM 133 Introduction to Excel** **1 hr (Sem I, II)**

Students will learn to edit and format worksheets, use functions, set print options, and add visual elements. The course will also cover how to work with multiple worksheets, create tables and charts. Students will use the latest version of Microsoft Excel. 1 lecture/laboratory hour.

**OADM 150 Keyboarding II** **2 hrs (Sem I, II)**

A course covering review of basic skills, business letters, simple tables, manuscripts, and parallel columns using word processing software. 4 lecture/laboratory hours.

**OADM 151 Office Procedures and Business Machines** **1 hr (Sem I, II)**

This course focuses on basic office procedures and machines used in a business. Topics covered will include taking messages, greeting clients, confidentiality, using a copy machine, using a fax machine, using a 10-key calculator, and filing. 1 lecture/laboratory hour.

**OADM 152 Communications and Office Etiquette** **1 hr (Sem I, II)**

This course will focus on proper etiquette in a business setting. Topics covered will be interviewing skills, presentation skills, dress, resumes, cover letters, receptionist etiquette, email and phone etiquette. 1 lecture/laboratory hour.

**OADM 155 Records Management** **3 hrs (Sem II)**

Study the basic rules and broad issues relative to records management. Topics covered include alphabetic, geographic, numeric and subject methods of records filing; controlling the use of stored records, methods for storing and retrieving special records; managing the records systems and a discussion of microrecords. 3 lecture/laboratory hours.

**OADM 161 Word Processing** **3 hrs (Sem I, II)**

Individuals will learn word processing for initial employment, job retraining, or for home use and will learn to fully utilize Windows software on up-to-date computers. In addition, current office technology and computer concepts will be emphasized. This course will include current word processing software. A lab fee will be assessed to students so they can sit for the MOUS exam. 4 lecture/laboratory hours.

**OADM 170 Medical Terminology** **3 hrs (Sem I, II)**

An introductory course designed for professional health field personnel, such as hospital administrators, nurses, nurses' aides, medical record librarians, medical secretaries, medical technologists, radiology technologists, physical therapists, and inhalation therapists. Medical terminology, analysis of medical term prefixes, suffixes, root words, and an anatomy and physiology glossary of systems of the body are stressed. 3 lecture hours.

**OADM 201 BPA Seminar** **1 hr (Sem I)**

This is a continuation of activities in OADM 101. *This course may be repeated for credit.* 2 lecture/laboratory hours.

**OADM 210 Advanced Communication Tools** **3 hrs (Sem I, II)**

Students will be prepared to use software programs that effectively handle communication. Emphasis will be placed on speech recognition software and will develop proficiency using the software. Speed and accuracy utilizing word processing software will also be covered. Various business documents will be covered utilizing current word processing software. Students will be introduced to handwriting recognition software. 3 lecture/laboratory hours.

**OADM 215 Machine Transcription** **2 hrs (Sem I, II)**

Prerequisite: Some keyboarding experience recommended. Information processing systems require knowledgeable employees who are skilled in processing, retrieving, and transmitting data. Mastery of oral and written communication is vital for successful performance. Students will develop machine transcription skills and apply the cognitive skills of spelling, punctuation, grammar, formatting, and problem solving during the transcription process. 3 lecture/laboratory hours.

**OADM 219 Medical Transcription** **2 hrs (Sem II)**

Prerequisites: OADM 161 and 170. Beginning transcription with emphasis on the use of word processing software to process medical histories, SOAP notes, consultation reports, radiology reports, discharge summaries, etc., discussion of the confidential nature of such records, report forms, punctuation, capitalization, number, and abbreviation rules. The use of taped dictation by doctors, including foreign accents will enable students to acquire skills in transcribing as well as building speed in their completion of documents on computers. Medical vocabulary expansion will be stressed, along with employment standards of accuracy and neatness. 3 lecture/laboratory hours.

**OADM 230 Medical Insurance Billing** **3 hrs (Sem I)**

Prerequisite: OADM 170. Students will study the International Classification of Diseases, (ICD-9-CM), and Physicians' Current Procedural Terminology (CPT), developing a basic knowledge of these coding systems, creation of the health insurance claim form for reimbursement from insurance companies. Students will learn about Commercial Insurance, Blue Cross/Blue Shield, and Medicare insurance billing issues. 3 lecture/laboratory hours.

**OADM 231 Advanced Medical Insurance Billing** **3 hrs (Sem II)**

Prerequisite: OADM 230. This is a continuation of OADM 230. Students will study Medicaid, TRICARE, and Workers Compensation insurance billing. In addition, students will have hands-on training on the Medical Manager software on computers. OADM 231 will serve as the capstone course in the Medical specialty option of the Administrative Office Technology degree. 3 lecture/laboratory hours.

**OADM 232 Presentation Software** **3 hrs (Sem I, II)**

Students will learn how to plan, define, create and modify presentations working with text and objects. Individuals will create an on-screen slide show using the latest presentation software, video graphics and sound. A lab fee will be assessed to students so they can sit for the MOUS exam. 3 lecture/laboratory hours.

**OADM 233 Spreadsheets** **3 hrs (Sem I, II)**

Prerequisite: None; however, previous computer experience is helpful. This course is designed to include creating and formatting worksheets, using formulas and basic functions, creating charts, and printing professional-looking worksheets. The use of spreadsheets to produce reports, the sorting and searching of records, the design of macros, and the use of what-if, combining files, and the extraction of data from a file will be presented. A lab fee will be assessed to students so they can sit for the MOUS exam. 3 lecture/laboratory hours.

**OADM 234 Databases** **3 hrs (Sem I, II)**

Prerequisite: None; however, previous computer experience is helpful. This course is designed to include guidelines on designing tables and databases, defining a relationship between two tables, changing, adding, or deleting records, creating queries, sorting and filtering data in a query, and preparing forms and informative reports. The use of relational databases, more advanced uses of queries, customizing forms and reports, integrating with other programs and automating tasks with macros will be covered. A lab fee will be assessed to students so they can sit for the MOUS exam. 3 lecture/laboratory hours.

**OADM 235 Legal Transcription** **2 hrs (Sem II)**

Prerequisites: OADM 161 and 215. Students will develop machine transcription skills in a variety of legal documents, such as those used in real estate, litigation, wills and estates, negligence, and family law by utilizing word processing software. 3 lecture/laboratory hours.

**§OADM 260 Office Management<sup>R/W/S</sup>** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and a grade of C or better in the speech requirement. Provides students with a basic background in modern theory and practice in office organization and management including such topics as management styles, problem solving, communication, ergonomics, office design, equipment, space, and personnel. Students will complete outside reading assignments, give oral presentations in class, and work on group projects containing written and oral components. 3 lecture/laboratory hours.

**OADM 261 Integrated Business Software** **3 hrs (Sem I, II)**

This course is designed to be a culminating course in the use of computers and computer software. Students will apply integrated knowledge of word processing, spreadsheets, databases, and presentation software utilizing laser printers and scanners. Students will be expected to make decisions and solve problems that they might encounter in an office support setting. In addition, students will develop and produce documents such as flyers, brochures, or pamphlets. 3 lecture/laboratory hours.

**OADM 266 Professional Business Image** **3 hrs (Sem I, II)**

This course is open to all majors. Individual personal and professional development will be enhanced by this course. Some of the topics to be covered include greetings and introductions, professional dress, restaurant etiquette, table manners, meeting manners, travel and international etiquette. Students will also gain instruction in time management, communication, organizational, and leadership skills. Students will be required to attend an evening dinner session. 3 lecture hours.

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**OADM 269 Office Professional Seminar** **3 hrs (Sem II)**  
Prerequisites: OADM 155 and OADM 161. An overview of the electronic office environment is provided covering current office systems and technology, ergonomics, maintaining public relations, telephone etiquette, and letter composition. Emphasis is on improved productivity through appropriate application of current office software. Students will also take the Office Proficiency Assessment Certification Exam (OPAC Exam). The CPS exam will also be described. Students will develop a portfolio of their work including a resume and letter of application. 4 lecture/laboratory hours.

**OADM 290 Virtual Assistant Seminar** **3 hrs (Sem I, II)**  
The Virtual Assistant is a course designed to assist those wanting to utilize their administrative assistant skills while working from a home office or an off-site office. The VA performs duties for a variety of companies at the same time. Upon completion of this course the student should be ready to create their home-based business. Some of the topics to be covered include: the necessary skills to succeed, services to offer, the correct business entity, naming your business, setting up your home office, marketing your business, defining your clients, determining rates to charge, writing a contract, establishing a web presence, and working efficiently. Students will be able to become associated with the International Virtual Assistants Association that offers the IVAA Certified VA Exam. 3 lecture hours.

### **Paralegal**

**PARA 100 Paralegal Profession and Ethics** **3 hrs (Sem I)**  
An introduction to the paralegal profession with in-depth coverage of the ethics of the legal profession with emphasis on the paralegal. The course features the use of case method, covering the reading, analysis and application of legal rules as developed through case law. 3 lecture hours.

**PARA 130 Land Transactions** **3 hrs (Sem II)**  
An exploration of property concepts, trusts and future interests. Creation of land interests by various instruments, stressing the role of the legal assistant in land transactions. Also covered are various court actions involving land transactions (such as partition, ejectment, liens, foreclosures), abstracts, title opinions and insurance. Heavy emphasis is placed on drafting of documents and pleadings involving land transactions. 3 lecture hours.

**PARA 140 Criminal Law and Procedure** **3 hrs (Sem I)**  
This course provides background in criminal law and procedures from the legal professional's perspective as opposed to a law enforcement perspective. The substantive law portion covers criminal common law and criminal code law, the Constitutional limitations on criminal laws, and the elements necessary to convict a person of a crime. The procedural law portion covers Constitutional requirements for search and seizure, interrogation, identification procedures and right to counsel, as well as other elements of due process. Also arraignment, trial procedures and punishment will be addressed. 3 lecture hours.

**PARA 150 Investigation and Tort Law** **3 hrs (Sem I)**  
Emphasizes legal assistant's role in client representation in tort claims matters including field investigation techniques; tort litigation, pre-trial and trial procedures; and comprehension of fundamentals substantive tort law and remedies, both federal and state. Utilizes practicum exercises. 3 lecture hours.

**PARA 160 Civil Procedures** **3 hrs (Sem II)**  
Study of the aspects of the legal assistant's supportive role from case preparation to final disposition, pre-trial and trial procedure, pleadings, rules of courts, motions, and discovery in civil proceedings. Basic concepts of trial evidence including relevance, hearsay and exhibits will be covered. Emphasis is on Indiana and Federal rules of court and rules of evidence. 3 lecture hours.

**PARA 170 The Paralegal in the Business World** **3 hrs (Sem II)**  
An in-depth examination of the law of agency and contracts (including an introduction to the Uniform Commercial Code) as well as various forms of business. Emphasizes the paralegal's role in the business and corporate setting, including creation, maintenance, and dissolution, along with drafting and research assignments in their areas. Securities regulations are also covered as it relates to the typical corporation and its investors. An introduction to administrative law and insurance as it relates to the business world. 3 lecture hours.

**PARA 180 Law Office Management** **3 hrs (Sem II)**  
An in depth course in the efficient functioning of a law office. Students will learn current principles of law office management and use both basic office software (word processing, spreadsheet, and database) and specialized legal software (document preparation, case management, and calendaring/time-keeping). 3 lecture/laboratory hours.

**PARA 210 Evidence and Litigation** **3 hrs (Sem I)**  
A description of the nature, types and use of evidence at trial. An analysis of rules of evidence bearing on its admissibility. The role of the legal assistant is stressed through practice in developing and preparing a

persuasive case at trial, including summarizing depositions, writing trial briefs, preparing exhibits, selecting juries, etc. 3 lecture hours.

**§PARA 215 Legal Research and Writing<sup>R/W</sup> 3 hrs (Sem I)**

Prerequisites: A grade of C or better in ENGL 101 or equivalent, *and* either a grade of C or better in READ 011, or SAT Reading score of 420 or greater, or a appropriate test placement scores. This course is designed to develop students' research skills by use of essential legal research tools, including statutes, cases, digests, Shepard's Citations, and computerized legal research. Students will acquire analytical skills in categorizing sources of law and applying law to fact situations. Students will learn how to communicate their research and analysis in proper written formats for use in law offices and in courts. 2 lecture hours, 3 laboratory hours.

**PARA 220 Probate Law 3 hrs (Sem II)**

This course is designed to teach students to understand basic concepts of probate and non-probate transfers of property rights that occur at the death of an owner. Students will learn property concepts such as tenancies in common, joint tenancies, and tenancies by the entirety, as well as the basics of future interests and inheritance law. Students will learn the basics of trusts and wills and the use of trusts and wills in estate planning. Students will learn the basic procedures to administer and close a decedent's estate, including rudimentary principles of death taxes. Students will acquire skills to prepare a simple trust, a simple will, and basic administration and tax forms. 3 lecture hours.

**PARA 230 Family Law 3 hrs (Sem II)**

A study of the common aspects of family law: marriage, parent and child, dissolution, property division, child custody and support, and adoption. 3 lecture hours.

**PARA 240 Debtor-Creditor and Bankruptcy Law 3 hrs (Sem I)**

Study of the substantive law of the debtor-creditor relationship and the substantive law of bankruptcy. Study of the practice and procedures with respect to debtor-creditor and bankruptcy law. Emphasis is given to drafting and preparation of pleadings, instruments, documents, forms, and memoranda associated with the practice of debtor-creditor and bankruptcy law. 3 lecture hours.

**PARA 270 Legal Internship 2 hrs (Sem I, II, Summer)**

Prerequisites: A grade of B or better in PARA 215, and a B average or better in all first year legal assistant courses. Internship for interested and qualified students in a law office or an approved law-related office. Supervised by program chair and lawyer in whose office the internship is served. First-hand experience in the legal system. Written report from students required as well as an evaluation from the supervising lawyer. Minimum of 120 practicum hours.

**PARA 290 Research/Professional Seminar<sup>S</sup> 3 hrs (Sem II)**

Prerequisites: PARA 215 and a grade of C or better in SPCH 143 or 148. This is an advanced research and writing course conducted on a seminar basis. Emphasis will be given to the area of Elder Law and various state and federal remedies in law and equity; also federal constitutional and statutory issues such as discrimination, civil rights, or other contemporary issues. Emphasis will also be placed on professionalism and assembling professional resume and portfolio. 3 lecture hours.

**Physical Fitness/Wellness**

All Vincennes University students must fulfill their physical fitness/wellness requirement in the following manner.

1. Two (2) credit hours must be earned in PFW L 100 Lifetime Fitness/Wellness, **OR** three (3) credit hours must be earned through a combination of PFWL 115 Concepts in Wellness, **AND** HLTH 211 First Aid.
2. A minimum of two hours of physical fitness/wellness credit is granted to veterans, members of the National Guard and Reserves and active duty military personnel who have successfully completed basic training. To be granted credit, documentation of military service must be presented to the Office of the Registrar.

**PFWL 100 Lifetime Fitness/Wellness 2 hrs (Sem I, II)**

The study of the fundamental concepts, principles, and components of fitness/wellness. Related areas of study include, but are not limited to, nutrition, stress reduction, heart health, body composition and weight control, and substance abuse. Course will be delivered through a one-hour lecture and two one-hour lab sessions per week. Students will select a lab activity of their choice. 1 lecture hour, 2 class activity hours.

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**PFWL 115 Concepts in Wellness** **1 hr (Sem I, II)**  
Study of fundamental concepts, principles, and components of wellness. Course will examine patterns of exercise, diet, nutrition, stress reduction, fitness attitudes, heart health, substance abuse, and other issues of health and wellness. 1 lecture hour.

### Physical Education

**PHED 104 Strength Training** **1 hr (Sem I, II)**  
Basic instruction in the use of weights and weight machines for the purpose of developing muscular strength. Instruction will also be given relative to the development of a personalized strength training program. 2 class activity hours.

**PHED 106 Self-Defense** **1 hr (Sem I, II)**  
Instruction in basic Tae Kwon Do kicks, strikes, and blocks, as well as universal skills related to situational counter attacks, including pressure point, knife, and gun defenses. Designed for the beginning student. No Karate rank will be earned. 2 class activity hours.

**PHED 108 Bowling** **1 hr (Sem I, II)**  
Basic instruction in bowling, scoring, and league play. 2 class activity hours.

**PHED 109 Racquet Games** **1 hr (Sem I, II)**  
Basic instruction in rules, terminology, and basic skills in badminton, racquet ball, and pickle ball. 2 class activity hours.

**PHED 110 Tennis** **1 hr (Sem I, II)**  
Basic instruction in the fundamental skills, rules, strategy, and terminology of tennis. Course designed for beginning tennis students. 2 class activity hours.

**PHED 112 Golf** **1 hr (Sem II)**  
Basic instruction in the skills, rules and etiquette of golf. Designed for beginning golfers. *Not open to Physical Education majors.* 2 class activity hours.

**PHED 113 Soccer** **1 hr (Sem I, II)**  
Fundamentals, skills, strategy, and terminology of soccer. Course designed for beginning soccer students. 2 class activity hours.

**PHED 114 Archery** **1 hr (Sem I, II)**  
Basic instruction in target archery. 2 class activity hours.

**PHED 118 Beginning Swimming** **1 hr (Sem I, II)**  
Basic instruction in swimming. 2 class activity hours.

**PHED 119 Intermediate Swimming** **1 hr (Sem I, II)**  
For those students beyond the beginning swimming level. Students successfully completing the course will receive the Red Cross Intermediate Swimming certificate. (Students must be recommended by the instructor.) 2 class activity hours.

**PHED 120 Water Safety Instructor** **2 hrs (Sem II)**  
Provides instruction for developing skills essential to swimming and water safety instruction, including class organization and administration. The Red Cross Water Safety Instructor (WSI) certificate may be earned. 2 class activity hours.

**PHED 121 Lifeguard Training** **2 hrs (Sem I, II)**  
Prerequisites: A swimming skills test must be successfully completed prior to enrollment in the course. The test includes treading water with the legs only for three minutes, recovering a submerged object in deep water, and swimming a total of 500 meters using crawl, breast, and sidestrokes. The lifeguard training course focuses on the job of the lifeguard in a swimming pool environment, emphasizing victim recognition, surveillance, and equipment-based rescue. Students will also receive instruction and certification in First Aid and Professional Rescuer CPR. Successful course completion results in certification through the American Red Cross as a lifeguard. 4 class activity hours.

**PHED 122 Water Aerobics** **1 hr (Sem I, II)**  
A water exercise program designed to emphasize cardiovascular fitness as well as tone major muscle groups. Swimming ability is not required as students can adapt the exercise intensity to their own fitness level. 2 class activity hours.

**PHED 123 Skin and Scuba Diving** **1 hr (Offered on Demand)**  
An introduction to skin and scuba diving. Emphasis on safety, avoidance of potential dangers, equipment use, basic snorkel diving, and discussion of certification programs. *(A non-certification course)* 2 class activity hours.

- PHED 124 Aerobic Dance** **1 hr (Sem I, II)**  
 Instruction in aerobic fitness utilizing aerobic dance steps, rhythmic exercises, and step aerobic exercises. Routines performed to background music provide activity that improves cardiovascular fitness while maintaining muscle tone and weight control. 2 class activity hours.
- PHED 125 Step Aerobics** **1 hr (Sem I, II)**  
 Fitness programming designed to promote low impact aerobic activity with high intensity benefits for cardiovascular and muscular conditioning by utilizing a four- through eight-inch platform. 2 class activity hours.
- PHED 126 Snow Skiing** **1 hr (Sem II)**  
 Basic instruction in snow skiing and skiing safety. Students will be required to complete course requirements at a ski area approved by VU and fulfill the requirements for total hours of attendance and participation in the sport. 2 class activity hours.
- PHED 127 White Water Rafting** **1 hr (Sem I, II)**  
 A beginning course in white water rafting. The course will be conducted prior to the beginning of the fall semester or at the conclusion of the spring semester. A lab fee will be charged that will include a two-day rafting trip and transportation. 2 class activity hours.
- PHED 128 Canoeing** **1 hr (Sem II)**  
 Basic instruction in canoeing using the American Red Cross Basic Canoeing certification course as the minimum standard. One or more canoe trips outside of class will be required. 2 class activity hours.
- PHED 131 Varsity Sports** **1 hr (Sem I, II)**  
 Enrollment limited to members of a University recognized varsity team. Athletes may receive one physical education credit during their enrollment at the University. Grades will be assigned by each sport's respective coach at the completion of that sport's season.
- PHED 136 Bowling for Majors** **1 hr (Sem I)**  
 Prerequisite: For Physical Education majors only. Improvement of basic skill performance, exposure to cognitive elements and introduction to teaching techniques. 2 class activity hours.
- PHED 138 Tennis for Majors** **1 hr (Sem I)**  
 Prerequisite: For Physical Education majors only. Fundamental skills, rules, strategy, equipment, terminology, and pedagogy of tennis. 2 class activity hours.
- PHED 139 Softball for Majors** **1 hr (Sem I)**  
 Prerequisite: For Physical Education majors only. Improvement of basic skill performance, exposure to cognitive elements and introduction to teaching techniques. 2 class activity hours.
- PHED 140 Volleyball for Majors** **1 hr (Sem I)**  
 Prerequisite: For Physical Education majors only. Improvement of basic skill performance, exposure to cognitive elements and introduction of teaching techniques. 2 class activity hours.
- PHED 141 Basketball for Majors** **1 hr (Sem I)**  
 Prerequisite: For Physical Education majors only. Improvement of basic skill performance, exposure to cognitive elements and introduction of teaching techniques. 2 class activity hours.
- PHED 142 Archery for Majors** **1 hr (Sem II)**  
 Prerequisite: For Physical Education majors only. Improvement of basic skill performance, exposure to cognitive elements and introduction to teaching techniques. 2 class activity hours.
- PHED 143 Golf for Majors** **1 hr (Sem II)**  
 Prerequisite: For Physical Education majors only. Improvement of basic skill performance, exposure to cognitive elements and introduction to teaching techniques. 2 class activity hours.
- PHED 144 Racquet Games for Majors** **1 hr (Sem II)**  
 Prerequisite: For Physical Education majors only. Improvement of basic skill performance, exposure to cognitive elements and introduction to teaching techniques. 2 class activity hours.
- PHED 145 Soccer for Majors** **1 hr (Sem I)**  
 Prerequisite: For Physical Education majors only. Improvement of basic skill performance, exposure to cognitive elements and introduction of teaching techniques. 2 class activity hours.

**PHED 146 Weight Training for Sport and Fitness Conditioning** 1 hr (Sem I, II)

Prerequisite: For Physical Education majors only. Instruction in principles, techniques, safety, nutrition, and program development in weight training for sport and physical fitness conditioning. Various types of free weight and single station machines will be introduced. 2 class activity hours.

**PHED 147 Track and Field for Majors** 1 hr (Sem II)

Prerequisite: For Physical Education majors only. Track and field events, rules, equipment, facilities, and pedagogy of track and field events. Open to non-majors by permission of instructor. *May be offered in alternate years.* 2 class activity hours.

**§PHED 150 Foundations of Physical Education** 3 hrs (Sem I)

Prerequisites: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. Interpretation of history, principles, and philosophy of modern physical education and sport; reviews professional preparation and employment. *Open to non-majors by consent of instructor only.* 3 lecture hours.

**PHED 202 Teaching of Individual and Dual Sports** 2 hrs (Sem I, II)

Prerequisite: For Physical Education majors only. Teaching of a variety of individual and dual sports, games, and activities for the educational setting. Focuses on skill development, teaching techniques, unit planning, tactical awareness, and decision making skills through participation and instructor guided activity. 2 class hours.

**PHED 203 Teaching of Team Sports** 2 hrs (Sem I, II)

Prerequisite: For Physical Education majors only. Teaching of a variety of team sports, games, and activities for the educational setting. Focuses on skill development, teaching techniques, unit planning, tactical awareness, and decision making skills through participation and instructor guided activity. 2 class hours.

**PHED 204 Teaching of Lifetime Sports and Recreational Activities** 2 hrs (Sem I, II)

Teaching of a variety of lifetime sports, games, and activities for the educational setting. Focuses on skill development, teaching techniques, unit planning, tactical awareness, and decision making skills through participation and instructor guided activity. 2 class hours.

**§PHED 210 Physical Education for the Elementary School<sup>R/W</sup>** 3 hrs (Sem I, II)

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Fundamental motor development needs of elementary school children with emphasis on teaching methods, organization, equipment, and activities essential to elementary school physical education programs. Provides opportunities to observe and teach young children in structured situations. Includes demonstration and teaching of games, basic skills, rhythms, and other movement activities. Open to Physical Education and Education majors only. 3 lecture hours.

**PHED 212 Introduction to Exercise Science<sup>W</sup>** 3 hrs (Sem I)

Prerequisite: A grade of C or better in or concurrent enrollment in LFSC 100 or higher. Introduces exercise science and human performance including exercise physiology, sport medicine, sport biomechanics, motor integration and sport-exercise nutrition. 2 lecture hours, 2 laboratory hours.

**PHED 225 Physical Fitness and Conditioning for Majors** 2 hrs (Sem I, II)

Prerequisite: For Physical Education majors only. Introduction to fundamental concepts, principles and components of physical fitness and conditioning. Lecture subjects include strength, flexibility, endurance and aerobic fitness development; weight control and nutrition; hypokinetic disease prevention, body structural integrity, modes of physical fitness activity and protocol for fitness assessment. Two laboratory hours each week are designed for participation in fitness and conditioning activities. 1 lecture hour, 2 class activity hours.

**PHED 230 Theory of Coaching** 2 hrs (Sem II)

Designed to acquaint prospective coaches with techniques, theories, and philosophies of sport coaching. Prepares students to deal with generic daily administrative and organizational problems of coaching. *May be offered in alternate years.* 2 lecture hours.

**PHED 235 Officiating Team Sports** 2 hrs (Sem I, II)

Techniques and fundamentals necessary for officiating softball/baseball, volleyball, and basketball. Students may earn IHSA license in sport of their choice. Practical hours required. 2 lecture hours.

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**PHED 240 Leadership in Intramural-Recreational Sports** 2 hrs (Sem I)

Basic principles for development, programming, and organization of intramural-recreational sports. Techniques and procedures used for structuring to tournaments as well as conducting competitive and non-competitive sports activities. Some practical experiences. 2 lecture hours.

**PHED 251 Instructional Leadership for Human Movement/Exercise Activity** 2 hrs (Sem II)

Prerequisites: A grade of C or better in PHED 212. Corequisite: PHED 270. Development of class organization and management skills, instructional techniques and leadership competencies for leaders, teachers, and personal trainers. Includes selection of instructional resources, activity and venue risk management, techniques of movement and exercise, safety protocol for aerobic exercise, weight training and range of motion activities. Arranged practicum required. 1 lecture hour, 2 class activity hours.

**PHED 252 Sports and Recreation Areas and Facilities** 3 hrs (Sem I, II)

Prerequisites: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or a appropriate placement test scores. A survey of primary sports and recreation areas and facilities including associated developments such as stadiums, recreation centers, play fields, parks, trails, and maintenance areas. Specific consideration will be given to design and standards concepts, operation, maintenance, scheduling, equipment, supplies, and purchasing procedures. 3 lecture hours.

**§PHED 255 Management of Recreation, Sport and Fitness<sup>R/W/S</sup>** 3 hrs (Sem II)

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. An overview of basic management functions and the examination of their use in recreation, sport, and fitness delivery systems. Functions include personnel administration and evaluation, public relations, budgeting systems, and risk management. 3 lecture hours.

**PHED 270 Exercise Program Development and Evaluation<sup>S</sup>** 3 hrs (Sem II)

Prerequisites: A grade of C or better in PHED 212. Corequisite: PHED 251. Principles, techniques, procedures and equipment necessary for individual fitness assessment, exercise prescription, motivation techniques, progress evaluation and exercise leadership. 2 lecture hours, 2 laboratory hours.

**PHED 271 Psycho-Socio Aspects of Sport and Exercise** 3 hrs (Sem II)

Prerequisite: PSYC 142. Identifies and discusses psycho-socio issues of sport and exercise. Investigates myths of sport and exercise as well as the effects upon the individual of competition, media, social pressures, motivation techniques and other phenomena. 3 class hours.

**PHED 294 Kinesiology** 3 hrs (Sem II)

Prerequisites: LFSC 111 and LFSC 111L; and a grade of C or better in or concurrent enrollment in LFSC 112 and LFSC 112L. The mechanics of motion as applied to the human body. Development of the ability to analyze activity for the purpose of improving physical skills. 2 lecture hours, 2 laboratory hours.

**Philosophy**

**§PHIL 111 Introduction to Philosophy** 3 hrs (Sem I, II)

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course introduces beginning students to the recurring problems, ideas and thought systems as represented in the literature and lives of great thinkers. *This course is a transferIN course.* 3 class hours.

**§PHIL 212 Introduction to Ethics<sup>R/W/S</sup>** 3 hrs (Sem I, II)

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course is a study of the morality of human behavior. After discussion of certain introductory questions about the nature and verification of moral propositions, this course will focus on components of the morally good life and alternative theoretical approaches to its achievement, using case studies (civil disobedience, abortion, euthanasia, etc.) to illustrate the principles and norms involved. *This course is a transferIN course.* 3 class hours.

**§PHIL 213 Logic<sup>R/W/S</sup>** 3 hrs (Sem I, II)

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. A course in formal logic. A study of the principles and methods employed in the appraisal of arguments and methodology, which will lead one's thinking to the accurate attainment of truth. 3 class hours.

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**§PHIL 220 Philosophy of Religion** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course will review major philosophical interpretations of the origin, evolution, and nature of religion, review arguments for and against the existence of God, address questions about the nature of God, the possibility of human immortality, the problem of evil, religious pluralism, the relation of religion and morality, and different ways of testing the truth and value of religion. 3 class hours.

**♠PHIL 313 Contemporary Ethical Issues** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in PHIL 212 is recommended; *and* junior level standing or consent of the instructor. This course will first attempt to identify the principles common to all the many different ethical theories. It will then seek through the use of specific case studies to apply these principles to the resolution of contemporary moral problems, like euthanasia, discrimination, ecology, terrorism, cloning, etc, in the fields of Medicine/Health Care, Business, Law Enforcement, Environment, and Scientific Research. 3 class hours.

**Pharmacy Technology**

**PHRM 105 Pharmacology I** **3 hrs (Sem I)**

Introduction to the principles of pharmacology. Defines the common uses for specific drugs, their therapeutic effects, bioavailability and toxicology information. Emphasis will be placed on dosage forms, dispensing criteria and familiarization of generic drug nomenclature. 3 lecture hours.

**PHRM 106 Pharmacology II** **3 hrs (Sem II)**

Prerequisite: PHRM 105. Continuation of drug concepts taught in Pharmacology I, with continued emphasis on drug utilization and management. Introduction of Latin abbreviations, measurements and conversion commonly used in pharmacy practice. 3 lecture hours.

**PHRM 110 Dispensing Lab I** **2 hrs (Sem I)**

Prerequisite: A C or better grade or concurrent enrollment in PHRM 105. An overview of pharmacy computer systems with students receiving hands-on access. The students will transcribe a doctor's written, verbal, fax, or telephone order. Emphasis will be placed on manufacturing of a product from a batch sheet, patient counseling, and assistance to pharmacists. 4 laboratory hours.

**PHRM 111 Dispensing Lab II** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in or concurrent enrollment in PHRM 110. Primary emphasis on manufacturing of sterile products from a physician's order with a 100 percent accuracy. Aseptic technique and work in a sterile environment will be stressed. 6 laboratory hours.

**PHRM 115 Pharmacy Law for Technicians** **3 hrs (Sem II)**

Students will be given an overview of Federal and State laws governing the practice of pharmacy. Emphasis will be placed on narcotic dispensing and documentation. Patient education and counseling requirements will be stressed. 3 lecture hours.

**PHRM 120 Pharmacy Calculations** **3 hrs (Sem I)**

Major emphasis on drug dose calculations, metric system, and basic skills needed to survive in the pharmacy. 3 lecture hours.

**PHRM 125 Practicum** **2 hrs (Sem II)**

Prerequisite: A grade of C or better in or concurrent enrollment in PHRM 111. A one-semester course designed to allow students to work with patients and other pharmacy professional staff. Students will work in an affiliated hospital or pharmacy. Emphasis will be placed on integration of the students into the profession of pharmacy. 4 practicum hours.

**PHRM 200 Pharmacy Management** **3 hrs (Sem II)**

Prerequisites: MGMT 100 and a grade of C or better in or concurrent enrollment in PHRM 106. Pharmacy Management explores today's health care environment, emphasizing the issues facing pharmacy and the pharmacy technician. Skills, talents, and tools required to cope today and succeed tomorrow are developed. This course covers such workplace topics as communication issues, CQI for the pharmacy, legal issues, teamwork concepts and patient instruction techniques. Student participation, role playing, and other interactive learning methods are emphasized. 3 lecture hours.

**Honors Physics**

**PHYH 232 Honors Physical Science-Physics** **3 hrs (Offered on Demand)**

Prerequisite: Honors Program acceptance. Introductory physical science course presenting the pertinent theories and laws of physics such as motion and Newton's Laws, energy and conservation laws, properties of matter, temperature and heat, sound, basic electricity and magnetism, and optics. 2 lecture hours, 3 laboratory hours.

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♠ Any course identified with a ♠ requires junior level standing or consent of the instructor.

## Physics

### **PHYS 100 Physics for Health-Related Professions** 3 hrs (Sem II)

Prerequisite: A grade of C or better in MATH 012, or a CPTS EA score of 53 or greater. Relationships of measurements, metric system, forces, friction, torques, simple machines, work and energy, gravity, momentum, fluids, waves, electricity and magnetism, to health field. 2 lecture hours, 2 laboratory hours.

### **PHYS 105 General Physics I** 4 hrs (Sem I, II)

Prerequisite: A grade of C or better in MATH 102. It is further expected that the students be proficient in basic trigonometry (sin, cos, tan, Pythagorean Theorem). The course covers mechanics, heat, and sound. *This course is a transferIN course.* 4 lecture hours.

### **PHYS 105L General Physics Laboratory I** 1 hr (Sem I, II)

Corequisite: PHYS 105. Examines principles of PHYS 105. *This course is a transferIN course.* 3 laboratory hours.

### **PHYS 106 General Physics II** 4 hrs (Sem II)

Prerequisites: A grade of C or better in MATH 102. It is further expected that the students be proficient in basic trigonometry (sin, cos, tan, Pythagorean Theorem). The course covers electricity, magnetism, light, and selected topics in modern physics. *This course is a transferIN course.* 4 lecture hours.

### **PHYS 106L General Physics Laboratory II** 1 hr (Sem II)

Corequisite: PHYS 106. Examines principles of PHYS 106. *This course is a transferIN course.* 3 laboratory hours.

### **PHYS 107 Geometrical Optics** 4 hrs (Offered on Demand)

Prerequisite: MATH 102. Corequisite: MATH 104. Classical optics including reflection and refraction, Snell's Law, graphical ray tracing, critical angle, deviation, dispersion, displacement, image formation from spherical surfaces, thin lens imaging, graphical construction, magnification, thin lens combinations, elementary optical systems, thick lens imaging, cardinal points, thick lens combinations, imaging from spherical mirrors, f-stops and apertures, and aberrations. 3 lecture hours, 3 laboratory hours.

### **PHYS 205 Physics for Scientists and Engineers I<sup>W</sup>** 5 hrs (Sem II)

Prerequisite: A grade of C or better in or concurrent enrollment in MATH 118. Designed for engineering and science majors utilizing calculus and covers linear and rotational kinematics and dynamics, work and energy, conservation of energy, linear momentum and angular momentum, equilibrium, oscillations, gravitation, fluid statics and dynamics, simple harmonic motion, wave phenomena, wave motion and sound. *This course is a transferIN course.* 4 lecture hours, 4 laboratory hours and/or computer work.

### **PHYS 206 Physics for Scientists and Engineers II<sup>R</sup>** 4 hrs (Sem I)

Prerequisite: A grade of C or better in or concurrent enrollment in MATH 119. Heat, thermodynamics, electrostatics, potential and field concepts, dielectrics, DC and AC circuits, magnetic fields, electrodynamics, geometrical optics, and wave optics. *This course is a transferIN course.* 5 lecture hours.

### **PHYS 206L Laboratory for Physics for Scientists and Engineers II** 1 hr (Sem I)

Corequisite: PHYS 206. Examines principles of PHYS 206; designed to be taken with PHYS 206. *This course is a transferIN course.* 3 laboratory hours.

### **PHYS 218 Essentials of General Physics** 5 hrs (Sem II)

Prerequisite: A grade of C or better in MATH 102. It is further expected that the students be proficient in basic trigonometry (sin, cos, tan, Pythagorean Theorem). The course covers mechanics, heat, and sound; the course is primarily for technology students. 3 lecture hours, 4 laboratory hours.

### **PHYS 300 Physics III<sup>S</sup>** 3 hrs (Sem II)

Prerequisites: PHYS 206. Corequisite: PHYS 300L. Third semester of a three-semester, calculus-based sequence. Special theory of relativity; introduction to quantum physics; atomic, nuclear, condensed matter, and elementary particle physics. Intended for science and mathematics majors. Three lecture-discussion periods each week. 3 lecture hours.

### **PHYS 300L Advanced Physics Laboratory** 1 hr (Sem II)

Corequisite: PHYS 300. Fundamental experiments in physics with emphasis on modern physics which may include classic experiments such as the Cavendish measurement of G, determination of Planck's Constant, Rutherford scattering, and the Milliken Oil Drop Experiment, among others. 3 laboratory hours.

### **♠PHYS 305 Statics for the Physical Sciences** 3 hrs (Sem I)

Prerequisites: A grade of C or better in MATH 118 and PHYS 205; and junior level standing or consent of the instructor. Mechanics for physics students covering vectors, equilibrium, applications involving beams, trusses and cables, hydrostatics, virtual work, potential energy, first and second moments of area, volume



and mass. In addition to the course work of PHYS 305, the student will demonstrate the ability to plan meaningful science instruction and assessments based upon knowledge of this material. 3 lecture hours.

**PHYS 306 Dynamics for the Physical Sciences** **3 hrs (Sem II)**

Prerequisites: A grade of C or better in MATH 119 and PHYS 205. Mechanics for engineering and physics students covering kinematics, impulse and momentum, work and energy, rectilinear and curvilinear translations, relative motion, and vibrations. In addition to the course work of PHYS 306, the student will demonstrate the ability to plan meaningful science instruction and assessments based upon knowledge of this material. 3 lecture hours.

**♠PHYS 310 Environmental Physics** **3 hrs (Offered on Demand)**

Prerequisite: Junior level standing or consent of the instructor. For biological and physical science majors. Relationship of physics to current environmental problems. Energy production, comparison of sources and byproducts; nature of and possible solutions to problems of noise and particulate matter in atmosphere. 3 lecture hours.

**♠PHYS 317 Linear Circuits for the Physical Sciences** **3 hrs (Sem I)**

Prerequisites: MATH 118; and junior level standing or consent of the instructor. Corequisite: PHYS 317L. Fundamental properties of electric circuits. Ohm's law, Kirchhoff's laws, mesh and nodal analysis with independent and dependent sources. Superposition, source transformations, Thevenin and Norton equivalency circuits. Transient response of RC, RL, and RLC circuits. Sinusoidal steady-state response and phasor diagrams. Instantaneous power, average power, RMS values. In addition to the coursework of PHYS 317, the student will demonstrate the ability to plan meaningful science instruction and assessments based upon knowledge of this material. 3 lecture hours, 1 class hour.

**♠PHYS 317L Linear Circuits for the Physical Sciences Laboratory** **1 hr (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: PHYS 317. Experimental exercises in lab instrument use. Voltage, current, impedance, frequency, and wave form measurements; frequency and transient response. In addition to the course work of PHYS 317L, the student will demonstrate the ability to plan meaningful science instruction and assessments based upon knowledge of this material. 3 laboratory hours.

**♠PHYS 331 Electricity and Magnetism** **3 hrs (Offered on Demand)**

Prerequisites: PHYS 206; and junior level standing or consent of the instructor. Topics covered are electrostatics, electrical potential, electric fields around conductors, fields of moving charges, magnetic fields, electromagnetic induction, and Maxwell's equations. Vector calculus is used. 3 lecture hours.

**♠PHYS 335 Thermodynamics for the Physical Sciences** **3 hrs (Sem II)**

Prerequisites: A grade of C or better in MATH 119 and PHYS 205; and junior level standing or consent of the instructor. Develops an understanding of the first law, second law and some physical properties of thermodynamics as well as some competence in application of principles to engineering systems. Entropy, reversible and irreversible processes, closed and open systems, properties of pure substances, control volume analysis, and gas power cycles. In addition to the course work of PHYS 335, the student will demonstrate the ability to plan meaningful science instruction and assessments based upon knowledge of this material. 3 lecture hours, 1 class hour.

**♠PHYS 366 Digital Systems for the Physical Sciences** **3 hrs (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: PHYS 366L. An introduction to digital system design and hardware engineering, with an emphasis on practical design techniques and circuit implementation. Topics include Boolean algebra, combinational logic, minimization, gate implementation, electrical characteristics, propagation delay, timing diagrams, signed numbers, arithmetic circuits, flip-flops, Mealy and Moore machines, programmable logic devices, ABEL, and simple computer design. In addition to the course work of PHYS 366, the student will demonstrate the ability to plan meaningful science instruction and assessments based upon knowledge of this material. 3 lecture hours.

**♠PHYS 366L Digital Systems for the Physical Sciences Laboratory** **1 hr (Sem I)**

Prerequisite: Junior level standing or consent of the instructor. Corequisite: PHYS 366. Application of design techniques of PHYS 366. Implementation of logic circuits and systems. TTL and PLD packages are utilized. In addition to the course work of PHYS 366L, the student will demonstrate the ability to plan meaningful science instruction and assessments based upon knowledge of this material. 3 laboratory hours.

**Technical Physics**

**PHYT 100 Physics for Technicians** **3 hrs (Offered on Demand)**

Prerequisite: A grade of C or better in MATH 105, or a CPTS EA score of 40 or greater, or a CPTS AR score of 64 or greater and a CPTS EA score of 32 or greater. An introductory course designed for applied technical majors. The course covers the fundamentals of measurement, motion, force, work, energy, power,

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simple machines, torques, states and properties of matter, heat, electricity, and sound. 2 lecture hours, 2 laboratory hours.

**PHYT 101 Technical Physics**

**4 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MATT 105, or a CPTS EA score of 40 or greater, or a CPTS AR score of 64 or greater and a CPTS EA score of 32 or greater. An introductory course designed for technology majors. The course covers measurement, motion, force, work, energy, power, simple machines, torques, properties of materials, fluids, hydraulics, sound, heat, and electricity. 3 lecture hours, 2 laboratory hours.

**Political Science**

**POLS 111 American National Government**

**3 hrs (Sem I, II)**

A study of federalism, theories of the origins and purposes of government and other aspects of the central government, including pressure groups, political parties, and the electoral process. Emphasis is also placed on constitutional backgrounds and the organization and functions of the executive, legislative, and judicial segments of the national government. *This course is a transferIN course.* 3 lecture hours.

**§POLS 112 State and Local Government**

**3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. A study of the basic organization and historical developments of the states, cities, counties, townships, and special districts. Special emphasis is given to the federal relationships of the states with the central government and the struggle over states' rights. Also emphasized are the problems facing state and local governments in the fields of urban renewal, crime, transportation, finance, education, and governmental reform. 3 lecture hours.

**§POLS 201 Introduction to Political Science<sup>R/W</sup>**

**3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, *and* a grade of C or better in ENGL 101. A study of the basic principles of government and its institutions. Provides a background for other courses in government. Required for students in political science and social work. *This course is a transferIN course.* 3 lecture hours.

**POLS 210 Personal Law**

**3 hrs (Sem I, II)**

This course will cover the basic relationship of congressional law, the Federal and State court structures, constitutional law, and common law. These relationships will stress how they all relate to the individual rights of citizens. The course will emphasize political rights, criminal rights, civil suits, consumer rights, and labor management rights. 3 lecture hours.

**§POLS 211 Introduction to World Politics<sup>R/W/S</sup>**

**3 hrs (Sem I)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, *and* a grade of C or better in POLS 201. This course is designed as a capstone course for all Pre-Law majors as a requirement for graduation. The course evaluates the growth of modern nation-states, the causes of conflict and war between nations, the impact of war and peace on modern political ideologies, and the economic and social consequences of political action. Emphasis will be placed on a study of current events in a global comparative perspective. The course will emphasize critical thinking and comparative analysis through essay and research paper evaluations built into the course format. *This course is a transferIN course.* 3 lecture hours.

**§POLS 220 Public Administration<sup>R</sup>**

**3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course is designed to examine the structure and function of the bureaucratic arm of the executive branch of government. Special emphasis will be placed on the internal workings of government agencies of a administration on the local, state, and national level. Considerable attention will be paid to the power exerted through these agencies. 3 lecture hours.

**Production Management**

**PRDM 100 Supply Chain Logistics Management**

**3 hrs (Sem I)**

This is an introductory course to examine the terminology of supply chain management including the history; integration into the business plan; supplier, distributor, and customer partnerships; profit and savings potential; sources of supply; supplier evaluation; international issues; pricing concepts; production planning; inventory management; warehouse management; transportation; globalization; technology and ethical considerations. This course looks at the operating environment and supply chain concept. 3 lecture hours.

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

**PRDM 110 Introduction to Production Management** **3 hrs (Sem I)**

This course will expose students to the working environment within a manufacturing operation. It would include how the production function interacts with other functional areas of business and presents such topics as demand forecasting, capacity management, location and layout of facilities, and other manufacturing-specific concepts. The course will also provide a general basis for more advanced production-related courses. 3 lecture hours.

**PRDM 125 Introduction to Total Quality Management** **1 hr (Sem I, II)**

This course provides an introduction to Total Quality Management through a review of its history and concepts. Students will become familiar with the key concepts of TQM including customer satisfaction, quality process orientation, empowerment, team-building and continuous improvement. *Offered primarily through Continuing Studies.* 1 lecture hour.

**PRDM 211 Distribution and Materials Management** **3 hrs (Sem I)**

This course concentrates on the raw material acquisition and movement of in-process materials through a manufacturing concern. It would concentrate in the purchasing function with topics such as order negotiation, legal requirements, quantity discounts, quality assurance and also the logistics (transportation) of these goods from the supplier to the end consumer. 3 lecture hours.

**PRDM 213 Statistical Quality Control** **3 hrs (Sem II)**

This course exposes students to the nature and techniques of quality as it is applied to a manufacturing environment. It will provide students a basic understanding of the history of quality as well as its more contemporary impact on manufacturing productivity. Students will study both non-statistical and statistical techniques used in quality assurance. Primary emphasis will be placed upon statistical process control (SPC) implementation and application. Computerized applications will be utilized to allow students hands-on experience with statistical software. Students should have a working knowledge of algebra. 3 lecture hours.

**PRDM 214 Materials Management** **3 hrs (Sem II)**

This course concentrates on inventory fundamentals, order quantities, and physical inventory; product development processes; production planning system; master scheduling; materials requirement planning; capacity management; production activity control; Lean Manufacturing; sourcing; forecasting; risk management; globalization; materials management software. 3 lecture hours.

**§PRDM 215 Quality ManagementR/W** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course provides students with the history and philosophy of Project Management which includes a survey of ISO, Six Sigma, Lean Manufacturing, Theory of Constraints and total cost of ownership. Students will examine concepts including customers' satisfaction, quality process orientation, empowerment, team building, and continuous improvement. 3 lecture hours.

**PRDM 220 Warehousing and Procurement** **3 hrs (Sem II)**

This course focuses on warehouse management, design of warehouse systems, materials management software, inventory fundamentals, risk management, sourcing production, distribution, and software for e-sourcing and purchasing. The course also covers the procurement function with topics such as order negotiation, supplier validation/certification, legal requirements, quantity discounts, and quality assurance. 3 lecture hours.

**PRDM 272 Transportation** **3 hrs (Sem I)**

This course provides a study of the different modes of transportation such as motor carriers, railroads, water carriers, air carriers, and pipelines. Topics covered are transportation strategies, negotiations, vehicle routing and scheduling. Students will also learn the history, cost and equipment, regulation, globalization, pricing strategies and information technology framework. 3 lecture hours.

**PRDM 293 Integrated Logistics Project** **3 hrs (Sem II)**

This course consists of a capstone project to assess the individual and program competencies of the graduating student. This course is intended to be completed in the student's final semester prior to graduation. The student will incorporate all the classroom studies and internship experiences into a final project. The student will partner with a real-world company to solve a problem for that company. Presentation of the solution will be made to faculty and the company's management. 3 lecture hours.

**‡PRDM 357 Total Quality Management** **3 hrs (Sem I)**

Prerequisite: Junior level standing. This course is designed to equip students with the managerial concepts and quantitative tools used in effective and efficient management of quality in the manufacturing and ser-

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vice organizations. The focus of this course is on problem solving, including problem definition, evaluation of alternatives, implementation and control of total quality standards. 3 lecture hours.

### **Printing Technology**

#### **PRNT 101 Introduction to Traditional and Digital Photography** 1 hr (Sem I, II)

Corequisite: PRNT 101L. This course is an introduction to photographic principles, techniques, using traditional and digital cameras. Areas of skill development include digital and traditional photographic equipment usage by use of computer, black and white roll film processing, enlarging and mounting. Specific photographic assignments are used to develop technical and creative control of the medium as it is used today in industry. Open to all students with priority given to majors in whose program it is required. 1 lecture hour.

#### **PRNT 101L Introduction to Traditional and Digital Photography Laboratory** 2 hrs (Sem I, II)

Corequisite: PRNT 101. This course involves hands-on activities that are directly related to PRNT 101. The course allows students to gain experience photographing assigned projects along with correcting the digital photos by means of computer software used for digital photography. Emphasis is placed on transferring from black and white traditional dark room to a color digital dark room. Open to all students; however, priority will be given to students needing this course to meet major requirements. 3 laboratory hours.

#### **PRNT 102 Introduction to Screen Printing** 1 hr (Sem I, II)

Corequisite: PRNT 102L. This course surveys methods and techniques for screen printing on different substrates in single and multi-colors. Students will learn how to do basic layout, camera operations, screen preparations, and screen printing. Projects will consist of printing on T-shirts, sweatshirts, hats, aprons, bumper stickers, paper and mylar. 1 lecture hour.

#### **PRNT 102L Introduction to Screen Printing Laboratory** 2 hrs (Sem I, II)

Corequisite: PRNT 102. This course involves hands-on activities that are directly related to PRNT 102. The course allows students to gain experience screen printing T-shirts, sweatshirts, glass, and mylar, along with various substrates. Experience printing on semi-automatic flat-bed presses and manual rotary textile presses, along with making screens, is achieved during the course. 3 laboratory hours.

#### **PRNT 105 Survey of Printing Techniques** 1 hr (Offered on Demand)

Corequisite: PRNT 105L. This course covers the characteristics and applications of various printing processes. Students will gain laboratory experience with the following printing processes: basic offset lithography and screen printing. Hands-on experience will be gained from designing images, camera operations, platemaking, presswork, and basic bindery operations. Bindery operations include paper cutting, folding, signatures, saddle stitching, trimming, and drilling. 1 lecture hour.

#### **PRNT 105L Survey of Printing Techniques Laboratory** 2 hrs (Offered on Demand)

Corequisite: PRNT 105. This course involves hands-on activities that are directly related to PRNT 105. The course allows students to gain experience operating small offset lithography equipment as well as basic screen printing using manual rotary textile presses. Operations in this course allow students to gain experience as if they were working in a printing company taking a job from start to finish. 6 laboratory hours.

#### **PRNT 107 Principles of Layout** 2 hrs (Sem I)

Corequisite: PRNT 107L. This course provides instruction on the preparation of text and graphics for printed reproduction. The course will focus on manual layout and design, and computer composition. Instruction will include the following topics: basics of printing, measuring systems, ruling, paste-ups, scaling, masking films, typography, data composition, basic functions of a word processor, style sheets, proofreading, saving and printing files. 2 lecture hours.

#### **PRNT 107L Principles of Layout Laboratory** 1 hr (Sem I)

Corequisite: PRNT 107. This course involves hands-on activities that are directly related to PRNT 107. The course allows students to gain experience by using printing measuring systems, ruling paste-ups using computer software, and other manual methods. Scaling images manually and digitally using computer aided software allows students to gain experience used in the printing industry. 2 laboratory hours.

#### **PRNT 110 Digital and Film Imposition** 1 hr (Sem I)

Corequisite: PRNT 110L. This course will offer students experiences in film assembly for sheetfed presses. Black and white and process color film assembly will be covered in this course. Different methods of proofing will be used to ensure proper film placement, and color specifications are met. 1 lecture hour.

**PRNT 110L Digital and Film Imposition Laboratory** **2 hrs (Sem I)**

Corequisite: PRNT 110. This course involves hands-on activities that are directly related to PRNT 110. Students will learn the offset-litho process through the use of demonstrations, field trips, guest speakers and practicum. Given the necessary materials, students will make up various numbered page sheetwise impositions and eight-page work and turn impositions. 4 laboratory hours.

**PRNT 150 Offset Presswork I** **2 hrs (Sem II)**

Corequisite: PRNT 150L. An introduction to sheet-fed offset lithography. Students will gain experience on medium sized offset presses. The basic offset process will be introduced and students will be required to produce a variety of printed materials throughout the semester. Students will also be introduced to platemaking. 2 lecture hours.

**PRNT 150L Offset Presswork Laboratory I** **2 hrs (Sem II)**

Corequisite: PRNT 150. This course involves hands-on activities that are directly related to PRNT 150. The course allows students to gain offset press experience utilizing single color offset and multi-color presses. Students operate presses manufactured by the world's leading press manufacturers Heidelberg and Komori. Experience is gained from mounting plates, achieving proper print density, clean-up, and lab evaluation. 4 laboratory hours.

**PRNT 151 Flexography Press Operation I** **2 hrs (Sem I)**

Corequisite: PRNT 151L. A study of press components, tension control, web guiding, press operation, and maintenance. 2 lecture hours.

**PRNT 151L Flexography Press Operation Laboratory I** **2 hrs (Sem I)**

Corequisite: PRNT 151. This course involves hands-on activities that are directly related to PRNT 151. The course allows students to gain flexographic press experience utilizing several multi-color presses. Students gain experience from mounting plates, achieving proper print density, setting up proper finishing operations, clean-up, and lab evaluation. A great deal of knowledge is obtained about the packaging industry through flexo finishing operations. 4 laboratory hours.

**PRNT 155 Computer Aided Publishing** **2 hrs (Sem II)**

Corequisite: PRNT 155L. Students will learn QuarkXPress, the leading page makeup software of the publishing industry. QuarkXPress will be learned by preparing simple posters, flyers, newsletters, and small publications. Typographic terms, methods, procedures, proof reading and copy markup will be stressed. The use of desktop scanners to capture graphics and text, as well as data processing software utilized to compile text used by QuarkXPress will be taught. 2 lecture hours.

**PRNT 155L Computer Aided Publishing Laboratory** **2 hrs (Sem II)**

Corequisite: PRNT 155. This course involves hands-on activities that are directly related to PRNT 155. The study of QuarkXPress will be divided into five projects with four to six lessons per project followed by a quiz and skill drills per project. The study of InDesign will be divided into ten project-based lessons followed by a quiz per project. 4 laboratory hours.

**PRNT 170 Camera/Digital Reproduction Photography** **2 hrs (Sem I, II)**

Corequisite: PRNT 170L. A study of the photographic process pertaining to different printing and other reproduction methods. This course includes studies of film emulsions, chemistry, line and halftone negatives, special effects photography produced by process camera and digitally on the computer using multiple input scanning devices, digital cameras and basic color editing with Photoshop. Also an introduction to platemaking exposures, offset plates, adding trim marks and side guide marks and punch systems. 2 lecture hours.

**PRNT 170L Camera/Digital Reproduction Photography Lab** **2 hrs (Sem I, II)**

Corequisite: PRNT 170. This course involves hands-on activities that are directly related to PRNT 170. Students will learn how to prepare digital files for their end-use to include newsprint, magazines, brochures, and displays and printing to various output devices. 4 laboratory hours.

**§PRNT 200 Job Planning and Material Budgeting<sup>R/W/S</sup>** **2 hrs (Sem II)**

Prerequisites: ENGL 101, SPCH 143, PRNT 107, PRNT 110, PRNT 150, PRNT 151, PRNT 155 and PRNT 170. Corequisite: PRNT 200L. This course provides instruction in job planning and budgeting of supplies used to complete a job. Students will complete the Graduate Bulletin and other projects as related to students in this course. 2 lecture hours.

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**§PRNT 200L Job Planning and Material Budgeting Laboratory<sup>R/W/S</sup> 1 hr (Sem II)**

Corequisite: PRNT 200 . This course involves hands-on activities that are directly related to PRNT 200. The course allows students to gain experience on locating and monitoring available jobs, setting up job interviews, along with understanding the budgeting process of a job to be printed as it progresses through a printing facility. 2 laboratory hours.

**PRNT 210 Offset Presswork II 2 hrs (Sem I)**

Prerequisite: A grade of C or better in PRNT 150 and PRNT 150L. Corequisite: PRNT 210L. Provides additional instruction in offset presswork. Laboratory work will include production of advanced projects such as duotone, multicolor posterizations, and four-color process work. 2 lecture hours.

**PRNT 210L Offset Presswork Laboratory II 2 hrs (Sem I)**

Corequisite: PRNT 210 . This course involves hands-on activities that are directly related to PRNT 210. The course allows students to continue gaining offset press experience utilizing single color offset and multi-color presses. Students operate presses with efficiency to meet the specifications of industry standards. Experience is gained from utilizing cost-saving techniques, efficiency, and ergonomics while operating offset presses. 4 laboratory hours.

**PRNT 211 Flexography Press Operation II 2 hrs (Sem II)**

Prerequisite: A grade of C or better in PRNT 151 and PRNT 151L. Corequisite: PRNT 211L. Includes die cutting, ink technology, and advanced press operation of four-color process work. 2 lecture hours.

**PRNT 211L Flexography Press Operation Laboratory II 2 hrs (Sem II)**

Corequisite: PRNT 211 . This course involves hands-on activities that are directly related to PRNT 211. The course allows students to continue gaining flexographic press experience focusing on process-color projects to be printed. Students operate presses with efficiency to meet the specifications of industry standards. Experience is gained from utilizing cost-saving techniques, efficiency, and ergonomics while operating flexo presses. 4 laboratory hours.

**PRNT 215 Advanced Computer Aided Publishing 1 hr (Sem I)**

Prerequisites: A grade of C or better in PRNT 155 and PRNT 155L. Corequisite: PRNT 215L. Provides in-depth practice using QuarkXPress with Photoshop. Instruction will focus on publications utilizing "anchored" text, photographs, graphics, style sheets, tabulation, color and tone reproduction curves, step and repeat techniques, trapping and printing procedures will be learned. Film distortion and imposition as applied to other printing processes will be learned through the use of Quark Xtensions. Flatbed scanners and digital cameras will also be used in this course. 1 lecture hour.

**PRNT 215L Advanced Computer Aided Publishing Laboratory 2 hrs (Sem I)**

Corequisite: PRNT 215 . This course involves hands-on activities that are directly related to PRNT 215. Students will work in teams to create a press-ready brochure using QuarkXPress and/or InDesign. Individual projects will include a resume portfolio consisting of a resume, CD label, CD package, and PDF. 4 laboratory hours.

**PRNT 220 Electronic Trapping/Imposition and Flightcheck 1 hr (Sem II)**

Prerequisite: A grade of C or better in PRNT 110, PRNT 110L, PRNT 155 and PRNT 155L. Corequisite: PRNT 220L. This course is a study of electronic trapping, impositions and checking all electronically produced documents for proper delivery by the Intranet, storage media or to imagesetters by the use of Flightcheck Collect. 1 lecture hour.

**PRNT 220L Electronic Trapping/Imposition and Flightcheck Laboratory 2 hrs (Sem II)**

Corequisite: PRNT 220 . This course involves hands-on activities that are directly related to PRNT 220. Given job sheets, students will complete and output various impositions using Kodak Preps software. Students will also learn the various methods of collecting digital files for output. 4 laboratory hours.

**PRNT 260 Printing Production Practices 5 hrs (Sem I, II)**

Prerequisite: Open to all printing majors who have completed 27 hours in the core curriculum. Extensive practical work experience gained by applying previously developed skills to scheduled production jobs in all aspects of printing technology. 15 laboratory hours.

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**PRNT 261 Cooperative Work Experience** **5 hrs (Sem I, II, Summer)**

Prerequisite: Open to all printing majors who have completed all 100-level courses excluding PRNT 101. Extensive practical work experience is gained through employment in the printing industry. Students' performance is evaluated by employer and instructor. May substitute for PRNT 260. A minimum of 240 hours of on-the-job training is required.

**Physical Sciences**

**§PSCI 101 Physical Science** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in MATH 011 and ENGL 011 or appropriate placement test scores. Introduction to physical concepts and theories pertaining to current applications and trends which may be selected from areas of physics, chemistry, earth science, and astronomy. Emphasizes concepts and factual knowledge. *This course is a transferIN course.* 2 lecture hours, 2 laboratory hours.

**PSCI 102 Physical Science for Elementary Education Majors** **3 hrs (Sem II)**

It is assumed that the student has math skills equivalent to one semester of high school algebra. Introductory physical science covering basic mechanics, state of matter, heat, electricity and magnetism, waves and sound with special emphasis on topics useful to elementary education majors. Satisfies lab science requirement for A.S. degree. 2 lecture hours, 2 laboratory hours.

**PSCI 103 Basic Physics of Music and Sound** **3 hrs (Sem I, II)**

One semester of high school algebra or equivalent is recommended. Introductory physical science course covering the principles involved in the description and generation of sound, related to music--simple harmonic motion, wave properties (frequency, wavelength, reflection and absorption, standing waves), mechanical forces, energy, Newton's Laws, resonance, and loudness. 2 lecture hours, 3 laboratory hours.

**Psychology**

**PSYC 130 Introduction to Human Services** **3 hrs (Sem I)**

This introductory course will include an overview of a variety of rehabilitation programs and human service settings. The duties and the responsibilities of the paraprofessional and professionals that work in agencies providing rehabilitation services will be explored. Students will be required to participate in supervised field trips to a variety of different facilities and rehabilitation programs. 3 lecture hours.

**PSYC 141 Applied Psychology<sup>S</sup>** **3 hrs (Sem I, II)**

The practical application of psychological principles and theories and their relationship to life situations. Study of behavior, emotions, values, wellness, and effective methods of dealing with other people and situations. The study will include the areas of workplace, home, and family as part of the focus on various principles to sound mental health. 3 lecture hours.

**§PSYC 142 General Psychology** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009, ENGL 009, and MATH 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. Provides a general survey of the science of Psychology. It includes the study of research methods, biological foundations, learning processes, human development, personality and abnormal psychology. *This course is a transferIN course.* 3 lecture hours.

**PSYC 160 Delivering Human Services** **3 hrs (Sem II)**

This course will train students in specific skills that will be applicable in rehabilitation and human services settings. Students will participate in thirty (30) hours of supervised practicum experience in a rehabilitation setting. This practical experience will allow students to participate as members of the transdisciplinary process while performing such responsibilities as individual program plan development and implementation, admission and discharge planning, and direct care and training of the individual. Other topics that will be introduced include conflict management, stress and time management, effective communication skills, and record keeping. 3 lecture hours.

**PSYC 180 Ethics in the Helping Professions** **3 hrs (Sem I)**

This course will introduce students to the professional standards and ethical guidelines required of workers in rehabilitation and social service settings. Topics of discussion will focus on enhancing self-determination of the client, confidentiality and laws regarding reporting of neglect and abuse. 3 lecture hours.

**PSYC 201 Developmental Psychology** **3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in PSYC 142. This course covers human growth and development throughout the life span. Physical, psychosocial, and cognitive influences will be examined from conception to death. *This course is a transferIN course.* 3 lecture hours.

**§PSYC 240 Human Sexuality<sup>R</sup>** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and PSYC 142. This course offers a perspective on the physiological, psychological,

and sociological nature to the human sexual response. It provides an overview of research in the field, methods of treatment and therapy for sexual problems, and a format for discussion of societal issues concerning sexual conduct. *This course is a transferIN course.* 3 lecture hours.

**PSYC 242 Educational Psychology** **3 hrs (Sem I)**  
Prerequisite: PSYC 142. Presents psychological variables in learning, devoting time to factors that affect the quality and direction of teaching. Students consider four broad areas: the teacher--his/her preparation, goals, uses of psychology, classroom responsibilities; the students--how their growth affects learning and adjustment; the classroom and other learning situations; and procedures for directing classroom activities. *An optional lab is offered with this course; see course descriptions for EDUC 242 and EDUC 242L.* 3 lecture hours.

**§PSYC 249 Abnormal Psychology<sup>R/W/S</sup>** **3 hrs (Sem I, II)**  
Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and a grade of C or better in PSYC 142. Examines theories and research related to mental illness as well as etiology and treatment methods. This course is a transferIN course. 3 lecture hours.

**PSYC 250 Behavioral and Emotional Disorders in Childhood and Adolescence** **3 hrs (Offered on Demand)**  
Prerequisite: Six hours of psychology. Psychology of exceptionally bright, retarded, brain damaged and deviant children. Problematic relationships to family and community are explored, and therapeutic implications considered. 3 lecture hours.

**§PSYC 251 Fundamentals of Assistive Technology** **3 hrs (Sem I, II)**  
Prerequisite: A grade of C or better in READ 009, ENGL 009 and MATH 009, or SAT Reading and Writing scores of 380 or greater, or a appropriate placement test scores. An overview of a variety of assistive technology devices, services, and systems will be introduced including those that enhance individual mobility, communication, learning, work, recreation, and daily living skills. Students will learn to understand and appreciate the impact of assistive technology on the lives of people with disabilities at school, work, and home. Related legislation and the assessment process will be explored. 3 class hours.

**PSYC 253 Introduction to Social Psychology** **3 hrs (Sem I, II)**  
Prerequisites: SOCL 151, PSYC 142. A study of human behavior in social situations. Processes of communication, socialization, social role, social self and social groupings are emphasized. *This course is a transferIN course.* 3 lecture hours.

**§PSYC 261 Assessment, Selection, and Evaluation of Assistive Technology<sup>W</sup>** **3 hrs (Sem I)**  
Prerequisite: A grade of C or better in READ 009, ENGL 009 and MATH 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. This course will focus on the selection of assistive technology while addressing the specific needs and preferences of the consumer through a collaborative team process. The functional assistive technology approach will be emphasized and the impact of assistive technologies will be illustrated. Specific criteria for selecting and evaluating assistive technology for consumer satisfaction will be examined. 3 lecture hours.

**PSYC 271 Applications in Assistive Technology** **3 hrs (Sem II)**  
Prerequisite: A grade of C or better in PSYC 251. Individual case studies demonstrating the implications of assistive technology in the lives of people with disabilities will be evaluated. Assistive technology design, maintenance and minor repairing will also be addressed. The format of this course will include video, guest speakers, and review of written individual experiences. 3 lecture hours.

**§PSYC 275 Internship/Special Project in Assistive Technology<sup>R/S</sup>** **3 hrs (Offered on Demand)**  
Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and a grade of C or better in PSYC 251. Students will apply assistive technology knowledge and skills by completing an approved project in assistive technology. Special projects may include supervised internships involving assistive technology or other related approved project. Classroom experiences will give students the opportunity to share challenges and explore practical assistive technology solutions. 3 lecture hours.

**PSYC 279 Review Course for Assistive Technology Credentialing** **1 hr (Offered on Demand)**  
Prerequisite: A grade of C or better in PSYC 271. Specific information required for the RESNA Assistive Technology Practitioner and Supplier Credentialing Examination will be covered. The format of this course will include special presentations from professionals working in the field of assistive technology, study guides, group activities, and mock examinations. *(Optional course)* 1 lecture hour.

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**PSYC 280 Health Psychology** **3 hrs (Sem I)**

An introduction to the field of health psychology with emphasis on how the mind-body interaction influences health and health related behaviors. The course uses the biopsychosocial model to study major illnesses, health enhancing and health damaging behaviors, and alternative "holistic" modalities for treatment. Focus is on the use of psychological principles to enhance health, prevent disease, identify risk factors, and shape public opinion. Students explore their own health and health practices as an approach to understanding health dynamics. 3 lecture hours.

**PSYC 291 Introduction to Exceptionalities** **3 hrs (Sem I, II)**

An overview of some special needs of individuals with unusual capabilities or handicaps. Ways to help individuals achieve more fully their unique potential will be considered. Causes of handicaps and appropriate preventive measures will be included. 3 lecture hours.

**♠PSYC 341 Education in Multicultural Society** **3 hrs (Sem II)**

Prerequisite: Junior level standing or consent of the instructor. An in-depth study of multicultural issues in contemporary society, with particular emphasis on public school settings. Attention given to students' development of personal identity and societal awareness. 3 lecture hours.

**♠PSYC 376 Industrial and Organizational Psychology** **3 hrs (Sem II)**

Prerequisites: PSYC 142; and junior level standing or consent of the instructor. Corequisite: MATH 310. Examination of psychological principles applied in the work place for personnel decision-making which include: job analysis, performance appraisal, and training. 3 lecture hours.

**Physical Therapist Assisting**

**♠PTAS 110 Physical Therapist Assisting I** **5 hrs (Sem I)**

Prerequisite: Admission to the Physical Therapist Assisting Program. Presents history, philosophy and ethical relationship of physical therapy. Reviews concept of rehabilitation, an overview of the medical spectrum, the concepts of health and disease, conditions common to physical therapy, and development of programs in physical therapist assisting. First of a four-semester sequence into physical and physiological principles and techniques of physical therapy which includes the study of movement, living subject anatomy, vital signs, selected emergency procedures, body mechanics, patient handling, preparation for treatment, massage, and basic therapeutic exercise and ambulation training. 3 lecture hours, 6 laboratory hours.

**PTAS 120 Physical Therapist Assisting II** **6 hrs (Sem II)**

Prerequisite: Admission to the Physical Therapist Assistant Program. The second of a four-semester sequence inter-relates medical, legal, and ethical considerations as applied to documentation and communication within the health field. Physiological, pathological and safety implications are applied to use of modalities; deep and superficial heating, cooling, electrical treatments for pain control and for muscle contraction, ultrasound, edema control and hydrotherapy. Techniques are learned for wound healing, vascular and cardiac disorders, amputations and use of prosthetic and orthotic devices. 3 lecture hours, 9 laboratory hours.

**PTAS 130 Clinical Education I** **5 hrs (Summer)**

Prerequisite: Admission to the Physical Therapist Assistant Program. This five week, full-time clinical course is designed to reinforce and relate lecture/lab experiences to the clinical environment. Students practice clinical skills and further develop competence as a medical team member. Requires close coordination between students, clinical supervisor and course coordinator. 200 clinical hours.

**PTAS 210 Physical Therapist Assisting III** **8 hrs (Sem I)**

Prerequisite: Admission to the Physical Therapist Assistant Program. The third of a four-semester sequence places emphasis on implementation of treatment plans as designed by the Physical Therapist. Kinesiology, muscle imbalance, arthrogenic and myogenic dysfunctional considerations are applied to musculoskeletal pathologies and pain syndromes especially as related to aging, industrial physical therapy, joint disorders, and autoimmune disorders, labyrinthine dysfunction, postural control and gait. Various treatment approaches are covered for central and peripheral neurological disorders. Social, economic, psychological situations are considered in relation to those treatments. 5 lecture hours, 9 laboratory hours.

**PTAS 224 Clinical Education II** **5 hrs (Sem II)**

Prerequisite: Admission to the Physical Therapist Assistant Program. During this six-week, full-time clinical course the student affiliates at a clinical site different than previously exposed to. This course continues to relate and expand upon previous academic/clinical experiences. Students practice clinical skills and further develop competence as a medical team member. Requires close coordination between students, clinical supervisor and course coordinator. 240 clinical hours.

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♠ Any course identified with a ♠ requires junior level standing or consent of the instructor.

**PTAS 225 Clinical Education III****5 hrs (Sem II)**

Prerequisite: Admission to the Physical Therapist Assistant Program. During this final, six-week, full-time clinical course, students affiliate at a clinical site different than previously exposed to. Requires close communication between students, clinical supervisor and course coordinator. 240 clinical hours.

**§PTAS 230 Seminar in Physical Therapist Assisting<sup>R/W/S</sup>****3 hrs (Sem II)**

Prerequisite: Admission to the Physical Therapist Assistant Program. In-depth follow-up to students' clinical experiences beginning fourteenth week through end of semester. Student presentations in a seminar atmosphere of major paper/case studies on patients treated during prior twelve-week clinical period. Discusses rationale for treatment in view of diagnosis and associated patient problems. Offers direction to where and how to find employment as well as what to look for in employment. Presents intensive review of all theoretical and technical material prior to graduation from the program. 15 class hours per week for last three weeks of semester.

**Radiography****RADG 100 Fundamentals of Radiologic Science and Health Care****3 hrs (Summer)**

Prerequisite: Admission to the Good Samaritan Hospital Radiography Program. This course is designed to provide students with an overview of the foundations in radiography and the practitioner's role in the health care delivery system. Principles, practices and policies of the health care organization(s) will be examined and discussed in addition to the professional responsibilities of the radiographer. Provide students with a fundamental background in ethics. The historical and philosophical basis of ethics, as well as the elements of ethical behavior, will be discussed. Students will examine a variety of ethical issues and dilemmas found in clinical practice. Introduce the principles of radiation protection including the responsibilities of the radiographer for patients, personnel, and the public. 3 lecture hours.

**RADG 101 Clinical Practice I****3 hrs (Summer)**

Prerequisite: Admission to the Good Samaritan Hospital Radiography Program. Clinical practice experiences shall be designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of radiologic procedures. Through structured sequential, competency-based assignments in clinical setting, concepts of team practice, patient-centered clinical practice and professional development shall be discussed, examined and evaluated. Clinical practice experiences shall be designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management. Levels of competency and outcomes measurements shall ensure the well being of the patient preparatory to, during and following the radiologic procedure. 20 clinical hours.

**RADG 103 Patient Care in Radiologic Sciences I****2 hrs (Sem I)**

Prerequisite: RADG 100. This course is designed to provide basic concepts of patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures will be described, as well as infection control procedures utilizing standard precautions. The role of the radiographer in patient education will also be identified. 2 lecture hours.

**RADG 104 Radiographic Procedures I****4 hrs (Sem I)**

Prerequisite: RADG 100. This course is designed to provide a knowledge base necessary to perform standard radiographic procedures along with the application to special studies. Provide a basis for analyzing radiographic images. Included are the importance of minimum standards, discussion of a problem-solving technique for image evaluation, and the factors that can affect image quality. Laboratory experiences in RADG 106 will be used to complement the didactic portion. 4 lecture hours.

**RADG 106 Positioning Lab I****3 hrs (Sem I)**

Prerequisite: RADG 100. This course will familiarize the student with the equipment and its operation. Lab will provide students with a hands-on approach to topics taught in RADG 104 utilizing their classmates as patients. Students will practice positioning their classmates for the exams learned in RADG 104 short of making an exposure. This will enable students to interact with the clinical instructor and ask positional and technical questions about an exam. 6 laboratory hours.

**RADG 109 Clinical Practice II****3 hrs (Sem I)**

Prerequisite: RADG 101. A continuation of RADG 101. 20 clinical hours.

**RADG 110 Patient Care in Radiologic Sciences II****2 hrs (Sem II)**

Prerequisite: RADG 103. A continuation of RADG 103. 2 lecture hours.

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- RADG 111 Radiographic Procedures II<sup>S</sup>** **4 hrs (Sem II)**  
Prerequisite: RADG 104. A continuation of RADG 104. Laboratory experiences in RADG 113 will be used to complement the didactic portion. 4 lecture hours.
- RADG 113 Positioning Lab II** **3 hrs (Sem II)**  
Prerequisite: RADG 106. A continuation of RADG 106. 6 laboratory hours.
- RADG 114 Radiation Production and Characteristics I** **3 hrs (Sem I)**  
Prerequisite: RADG 100. This course is designed to establish a basic knowledge of atomic structure and terminology. Also presented are the nature and characteristics of radiation, x-ray production and the fundamentals of photon interactions with matter. 3 lecture hours.
- RADG 115 Clinical Practice III** **3 hrs (Sem II)**  
Prerequisite: RADG 109. A continuation of RADG 109. 20 clinical hours.
- RADG 116 Clinical Practice IV** **3 hrs (Summer)**  
Prerequisite: RADG 115. A continuation of RADG 115. 28 clinical hours.
- RADG 201 Radiation Production and Characteristics II** **3 hrs (Sem I)**  
Prerequisite: RADG 114. A continuation of RADG 114. 3 lecture hours.
- RADG 202 Imaging and Processing** **2 hrs (Sem I)**  
Prerequisite: RADG 116. This course is designed to establish a knowledge base in factors that govern and influence the production and recording of radiologic images. Film and electronic imaging with related accessories will be emphasized. Class demonstrations/labs are used to demonstrate applications of theory. Students will be introduced to the components, principles and operation of digital imaging systems found in diagnostic radiology. Factors that impact image acquisition, display, archiving and retrieval are discussed. 2 lecture hours.
- RADG 203 Radiographic Quality and Exposure** **2 hrs (Sem I)**  
Prerequisite: RADG 116. This course will provide students with continued knowledge of factors that govern and influence the production of the radiographic image on radiographic film. Materials will be utilized to demonstrate clinical applications of the theoretical principles and concepts. Provide guidelines for selecting exposure factors and evaluating image within a digital system assisting students to bridge between film-based and digital imaging systems. Principles of digital system quality assurance and maintenance are presented. 2 lecture hours.
- RADG 204 Pharmacology and Drug Administration** **2 hrs (Sem I)**  
Prerequisite: RADG 116. This course is designed to provide basic concepts of pharmacology. The theory and practice of basic techniques of venipuncture and the administration of diagnostic contrast agents and/or intravenous medications is included. The appropriate delivery of patient care during these procedures is emphasized. 2 lecture hours.
- RADG 205 Clinical Practice V** **3 hrs (Sem I)**  
Prerequisite: RADG 116. A continuation of RADG 116. 28 clinical hours.
- RADG 207 Radiation Biology** **4 hrs (Sem II)**  
Prerequisites: RADG 201, RADG 202, RADG 203, RADG 204. This course is designed to provide an overview of the principles of the interaction of radiation with living systems. Radiation effects on molecules, cells, tissues, and the body as a whole are presented. Factors affecting biological responses are presented, including acute and chronic effects of radiation. An overview of radiation protection methods, to reduce radiation effects, will be covered in this course. 4 lecture hours.
- §RADG 208 Radiographic Pathology<sup>R/W</sup>** **2 hrs (Sem II)**  
Prerequisites: RADG 201, RADG 202, RADG 203, RADG 204. This course is designed to introduce theories of disease causation and the pathophysiologic disorders that compromise healthy systems. Etiology, pathophysiologic responses, clinical manifestations, radiographic appearance and management of alterations in body systems will be presented. 2 lecture hours.
- RADG 209 Imaging Equipment** **1 hr (Sem I)**  
Prerequisite: RADG 114. This course is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. Provide the entry-level radiography students with principles related to computed tomography (CT) imaging. 1 lecture hour.
- RADG 210 Clinical Practice VI** **3 hrs (Sem II)**  
Prerequisite: RADG 205. A continuation of RADG 205. 28 clinical hours.

**RADG 211 Seminar in Radiography****3 hrs (Sem II)**

Prerequisites: RADG 201, RADG 202, RADG 203, RADG 204. This course will review the different factors that have been taught in the program in preparation for their national registry examination. Students will utilize simulated registry exams as well as various other exams and review material that the instructors want to employ. 3 lecture hours.

**Reading****READ 009 Fundamentals of Reading, Level I****3 hrs (Sem I, II)**

A course designed to teach word recognition, pronunciation, vocabulary acquisition, and comprehension skills necessary for READ 011 and the eventual reading of college textbooks. Required of all entering students with a SAT Reading score of 370 or below or the equivalent score on ACT or placement assessment. Exit from the course and admission into READ 011 will be determined by the successful completion of a required score on a standardized test. Students enrolled in this course should not be enrolled in courses that require reading college textbooks. Students who do not score at the READ 011 level after two semesters will be reviewed for standards of progress. Students who achieve *college reading level by the end of the semester will be excused from the READ 011 Reading Techniques requirements*. Students required to take this course must *complete this requirement with a grade of C or higher*. 3 class hours.

**READ 011 Reading Techniques, Level II****3 hrs (Sem I, II)**

A course designed to teach the techniques of learning new vocabulary, paragraph analysis for improving comprehension, and application of silent reading to college textbooks. Individualized instruction also provides opportunities for improving reading rate, test taking, and studying textbooks. Required of all entering students with a SAT Reading score of 380 to 410, or the equivalent on the ACT or placement assessment. Exit from the course at the end of the semester will be determined by the achievement of *college reading level* on one of three exit exams and completion of course requirements. Open second semester to students who want to improve their reading efficiency. Students who qualify for READ 103 or 104 may complete the developmental reading requirements by earning a *C* or higher in READ 103 or 104. Students required to take this course must *complete this requirement with a grade of C or higher*. 3 class hours.

**READ 101 Speed Reading****1 hr (Sem II)**

A course designed to increase students' rate of reading. Emphasis will be placed on establishing purpose, flexibility, and improved concentration and comprehension for reading. Computers and other speed reading techniques will be utilized. 1 class hour.

**READ 103 Vocabulary Development****2 hrs (Sem I, II)**

This course is designed to teach students how to learn more systematically the meanings of new words. Emphasis will be placed on inferring the meanings of words by studying context, determining word meaning by analyzing the base words and affixes, and the usage of a desk dictionary to locate definitions, synonyms, etymologies, pronunciations, and spelling. Students who have completed one or more semesters of developmental reading and scored above the developmental reading comprehension level may fulfill the developmental reading requirements by earning a *C* or better in this course. This course is also open to all students for enrichment if the students' placement or test scores are above the developmental reading levels. *Not open to students concurrently enrolled in READ 009 or 011*. 2 class hours.

**READ 104 Reading Workshop****3 hrs (Sem I, II)**

Prerequisite: Completed required enrollment in developmental reading or SAT Reading score of 420 or greater, or appropriate placement test scores. This course is designed to help students find books of interest and to have the opportunity to apply reading skills to a variety of reading material. Emphasis will be placed upon becoming more aware of interests, strengths, insights, and goals as a reader. Students will have the opportunity to assess areas of reading that they may want or need to improve and develop strategies for making improvements. Students who qualify for READ 104 may complete the developmental reading requirements by earning a *C* or higher in this course. This course is also open to all students for enrichment if the students' placement or test scores are above the developmental reading levels. 3 class hours.

**READ 105 Independent Reading Improvement****1 hr (Sem I, II)**

This course is designed to allow students to enroll for one hour of supervised reading subsequent to READ 011 or exhibiting proficiency at a level comparable to READ 011 requirements. Course is offered on a pass/fail basis only. 1 class hour.

**Resort Management****RESO 280 Resort Management****10 hrs (Sem II)**

Prerequisite: Completion of A.S. or A.A.S. degree in a management program. May be taken concurrently with RESO 285 and RESO 290. A combination of a lecture course with practical experience hours to be gained on-site at French Lick Springs Resort. This course is designed to focus on the uniqueness of resort management and operation. Examples of learning areas include golf course management, health club and spa facilities, personnel and human relations, managing the investment, and more. Students will have a lecture class equivalent to three hours. The student must work 24 hours per week at French Lick Springs

Resort (March - October) and will log a minimum of 840 practical experience hours. 3 lecture hours plus a minimum of 840 practicum hours.

**RESO 285 Landscape Management for Resorts** **1 hr (Sem II)**  
Prerequisite: Completion of A.S. or A.A.S. degree in a management program. An informative course for future resort managers. Includes interpreting contracts, evaluating cost estimates, and selection of landscape professionals. Turf grasses for golf courses and beautification of the facility will be introduced. 1 lecture hour.

**RESO 290 Gift Shop Retailing** **1 hr (Sem II)**  
Prerequisite: Completion of A.S. or A.A.S. degree in a management program. May be taken concurrently with RESO 280 and RESO 285. A lecture course designed to aid the resort manager with merchandising, inventorying, promotion, and pricing decisions in the resort's retail areas such as lobby gift shop, specialty boutiques, pro shops, etc. 1 lecture hour.

#### **Restaurant and Food Service Management**

**REST 100 Introduction to Hospitality Management** **3 hrs (Sem I)**  
An introductory but comprehensive course covering the many management processes of menu planning, purchasing, production, service, cost controls, sanitation, and housekeeping. 3 lecture hours.

**REST 101 Introduction to Hospitality Management/Module I** **1 hr (Sem I, II)**  
An introductory course covering the many aspects of hospitality and careers available in the hospitality industry – Part One. 1 lecture hour.

**REST 102 Introduction to Hospitality Management/Module II** **1 hr (Sem I, II)**  
A continuation of REST 101 – Part Two. Menu planning, purchasing, production, and cost controls will be covered. 1 lecture hour.

**REST 103 Introduction to Hospitality Management/Module III** **1 hr (Sem I, II)**  
The final topics of the aspects of the hospitality industry and a continuance of REST 101 and REST 102 – Part Three. Topics covered will include items such as service, sanitation, and housekeeping. A grade of C or better in REST 101, REST 102, and REST 103 would be the equivalent of REST 100. 1 lecture hour.

**REST 115 Successful Strategies for Employment** **3 hrs (Sem II)**  
This class will prepare students for employment by instruction with lecture and lab in the basic guidelines in securing and holding a position in the restaurant industry. 2 lecture hours, 2 lab hours.

**§REST 120 Food Service Sanitation<sup>R</sup>** **3 hrs (Sem I, II)**  
Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course will cover the basics of food service sanitation including pathogenic food borne disease, proper handling and storage of perishable commodities, personal hygiene practices, sources and elimination of contamination, and sanitary procedures in purchasing, storage, equipment and facilities. The course will utilize the National Restaurant Association Certification textbook and test; therefore, students will receive NRA certificate upon successful completion. 3 lecture hours.

**REST 155 Quantity Food Purchasing** **3 hrs (Sem II)**  
Using menu planning as the foundation of the food service industry, emphasis is placed on the techniques of specification and bid purchasing availability of products, selection of suppliers and the procedures for receiving, storage, inventory control, and ultimate economical use of product. 3 lecture hours.

**REST 200 Hospitality Human Resources Management<sup>W/S</sup>** **3 hrs (Sem I)**  
The management process of motivating workers and development of human relations management styles are the core themes of this course. Organizing people relations, job and employee analysis, behavior modification theories, and the techniques of supervision and group leadership are included. 3 lecture hours.

**REST 210 Beverage Sales and Service** **3 hrs (Sem I)**  
The course will cover the format and management of beverage operations. Included in the course will be an emphasis on beverage system controls, accounting, par stock, inventory and purchasing. Wine promotion, service and storage will be highlighted in the course as will appropriate management techniques. Liquor control laws, banquet and special occasions will also be included. 3 lecture hours.

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**§REST 220 Legal Aspects of the Hospitality Industry<sup>R</sup> 3 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Practice and personnel performance, which avoids lawsuits and legal pitfalls, will be stressed. Also included in the course will be liabilities of public establishments, the innkeepers act, guest's rights and contracts for the hospitality industry. 3 lecture hours.

**REST 230 Menu Planning and Facility Design 3 hrs (Sem II)**

The basic aspects of menu planning design and pricing and the use of the menu as an internal selling device will be presented. Also included will be merchandising and promotion of the food product utilizing both internal and external methods, including personal selling, use of the media, presentation of the food items, decor, and other merchandising techniques used by the hospitality industry. This course will show the relationship between the menu and the design of the facility and selection of equipment. The placement of the equipment and the traffic flow of the kitchen will also be covered. 3 lecture hours.

**REST 240 Banquet, Catering, and Operational Management<sup>S</sup> 6 hrs (Sem II)**

Service of special functions, banquets, receptions, parties, etc. is stressed along with front-of-the-house management, service and operation. Included will be the study of catered off-premise events; themes, style and set-ups of special functions; styles of food and restaurant service; and the banquet department management. Students will utilize laboratory time in the actual practice of dining room supervision set-up and management. 3 lecture hours, 6 laboratory hours.

**REST 270 Hospitality Services Internship 2 hrs (Summer)**

This internship consists of a minimum of 300 hours employment in an approved position in the hotel, restaurant and food service industry. The on-the-job experience will be evaluated and the students' performance graded. While faculty will visit during the work experience, students will be under the supervision of the employer who will also evaluate, grade, and document the students' progress. A minimum of 300 practicum hours is required.

**Religious Studies**

**RLST 201 Major Religions of the West 3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 011, or appropriate placement test scores. This course consists of an historical/comparative/theological study of the beliefs and practices of Judaism, Islam, and Christianity. 3 class hours.

**RLST 202 Major Religions of the East 3 hrs (Sem I, II)**

Prerequisite: A grade of C or better in READ 011, or appropriate placement test scores. This course will consist of an historical/comparative/theological study of the beliefs and practices of Hinduism, Buddhism, Confucianism, Taoism, and Shinto. 3 class hours.

**Science Education**

**SCED 421 The Teaching of Science 3 hrs (Sem I)**

Prerequisite: Admission to the Teacher Education Program. Presents those techniques of science instruction and instructional materials most applicable to the teaching of science in the secondary school setting. Selection, utilization and evaluation of manipulatives, audiovisual materials, and equipment. Emphasis on use of current technology. 3 lecture hours.

**SCED 490 Capstone Experience, General Science Education 3 hrs (Sem II)**

Prerequisite: Admission to the Teacher Education Program. A course intended to synthesize and integrate the knowledge and skills of the major course work and the general and liberal education course work. Students will be required to complete a major research paper aimed at addressing a philosophic, social, political, economic, or historical problem connected to General Science Education. Activities in the course will include a major research paper and an oral presentation based on significant research and project results. These activities will be opportunities for students to display the content knowledge, research skills, critical thinking, affective learning, and presentation skills needed to be life-long learners. 3 lecture hours.

**Safety Management**

**SMGT 105 Introduction to Safety Management 3 hrs (Sem I)**

This course is designed as a study of the nature of accident and injury control in work situations. The general principles of hazard control are examined along with specific industrial accident-producing physical conditions. In addition, emphasis is placed on the function of the safety department related to the administration of safety programs. 3 lecture hours.

## Honors Sociology

### §SOCH 211 Honors Contemporary Civilization<sup>R/W/S</sup> 3 hrs (Sem I)

Prerequisite: Honors Program acceptance. An examination of the individual's place within contemporary American society and the influence of family on personal identity. 3 class hours.

## Sociology

### SOCL 120 Time and Stress Management 2 hrs (Offered on Demand)

This course emphasizes in depth analysis of time use, plans for attaining definite goals, dealing with people, running productive meetings, time saving resources, time pressures and time wasters. The course also addresses techniques for identifying, monitoring controlling stress, job burnout and its causes is explored and methods to avoid or recover from job burnout is emphasized. 2 class hours.

### §SOCL 151 Principles of Sociology 3 hrs (Sem I, II)

Prerequisite: A grade of C or better in READ 009, or SAT Reading score of 380 or greater, or appropriate placement test scores. Presents students with generalized information about the various social processes that function in society, various analytical tools, and techniques of applying this information to everyday living. *This course is a transferIN course.* 3 lecture hours.

### §SOCL 153 Introduction to Social Work 3 hrs (Sem I, II)

Prerequisites: A grade of C or better in READ 009, ENGL 009 and MATH 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores; and a grade of C or better in or concurrent enrollment in READ 011. Recommendation: SSKL 102 or SAT Writing score of 420 or greater. An introduction to the field of social work, the functions performed by the professional social workers, and opportunities in the field. 3 lecture hours.

### SOCL 154 Cultural Anthropology 3 hrs (Offered on Demand)

This is a survey of the variety of social and cultural developments within the human family. Various cultural types and major societal structures such as kinship terminology, patterns of production and consumption, and social institutions will be dealt with in a variety of cultural settings. 3 lecture hours.

### SOCL 164 Introduction to Multicultural Studies 3 hrs (Sem I)

This is an introductory course in the multicultural composition of the United States. The impact of and interaction between social institutions including the family, education, religion, economics, and government will receive attention. The development of prejudice and discrimination will be explored. Particular focus will be shown to cultural groups based on ethnicity and color. This course will prepare students to understand, appreciate, and work effectively with people who are different from themselves. It will also help students to value the multiple cultures from which they have come. 3 lecture hours.

### SOCL 180 Clinical Aspects of Substance Abuse 3 hrs (Sem I)

This is a basic introductory course in the symptomatology and pharmacology of alcoholism and substance abuse. Topics to be covered include prevalence of abuse; nature and history of abuse; symptoms of abuse and dependency and characteristics of abusers and addicts; symptoms and characteristics of co-dependent persons; and classification and effects of substances. *(Available as WEB-based course only.)* 3 lecture hours.

### SOCL 181 Therapeutic Interventions with Substance Abusers I 3 hrs (Sem I)

This is an introductory course into basic assessment and counseling skills with substance abusers. Exploration of the counselor's values, psychological assessment and social/family history taking, interviewing skills, record keeping and legal liabilities will be covered with special application towards substance abusers. Students will be required to participate in a supervised field placement. *(Available as WEB-based course only.)* 3 lecture hours.

### SOCL 210 Organizational Sociology 3 hrs (Offered on Demand)

This course examines sociological theories on organizational behavior and leadership within organizations. The main focus is on organizational behavior in the work environment. The impact of technology on work organization, the composition and skills of the labor force, the division of labor, and the quality of work life receive special emphasis. Attention is also given to leadership characteristics and decision-making processes. The relationship between managers and workers will be explored in depth. 3 lecture hours.

### §SOCL 240 Social Work Practice<sup>S</sup> 3 hrs (Sem I, II)

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and a grade of C or better in ENGL 101. This course is an introduction to the general framework of social work practice. It will include the basic theories and methods of general social work practice. Students will develop skills necessary for information gathering, interviewing, and assessment.

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Students will also be exposed to small group processes and problem solving within the generalist framework. It will present students with the core knowledge that assists students in understanding and appreciating the social worker's role in intervention. Critical thinking, self-awareness, and the integration of theoretical perspectives are skills that are stressed in the course. Additional volunteer hours will be required. 3 class hours.

**§SOCL 245 Cultural Diversity: Sociology<sup>R/W/S</sup> 3 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and ENGL 101 and SOCL 151. Utilizing a sociological approach, this course will provide students with an opportunity to explore their own ethnic roots. In addition, it will increase their understanding of the main ethnic groups in the United States: Appalachians, Native Americans, Afro-Americans, Asian-Americans, Pacific Islanders, and Hispanics. The social and religious impact on the cultural integration of these groups will be introduced. Discussions on how these aspects of United States culture may affect international dialogues will also be included. 3 class hours.

**SOCL 250 Sociology of Aging 3 hrs (Sem I)**

The course is a study of the maturation process from a physical, psychological and sociological perspective. Contemporary problems of gerontology will be discussed. Examples of problems related to the aged are health care, financial needs, individual life style, social and cultural change. Additional volunteer hours will be required. 3 lecture hours.

**§SOCL 251 Introduction to Social Welfare and Social Work<sup>R/W</sup> 3 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and SOCL 151. An introductory course which examines the basic concepts of social welfare, and the philosophy, values, and concepts of social work practice. Students will also have experience in various social welfare agencies. 3 lecture hours.

**SOCL 252 Social Problems 3 hrs (Sem I, II)**

Prerequisite: SOCL 151. This course has as its primary aim the introduction of some of the more complex and important problem areas in the American social context and includes a presentation of contemporary thinking relative to the identification, analysis, and alleviation of these problems. *This course is a transfer-IN course.* 3 lecture hours.

**SOCL 253 Introduction to Social Psychology 3 hrs (Sem II)**

Prerequisites: PSYC 142, SOCL 151. A study of human behavior in social situations. Processes of communication, socialization, social role, social self and social groupings are emphasized. 3 lecture hours.

**SOCL 254 Introduction to Archaeology 3 hrs (Offered on Demand)**

An exploration of archaeological sequences from beginnings of settled life to complex civilization. Particular attention is directed toward developmental sequences and ecological adaptations. The course will also consider the pre-European societies of Indiana and adjacent areas against the backdrop of the archaeological and paleological records of the eastern United States. 3 lecture hours.

**SOCL 260 Sociological Aspects of Death 3 hrs (Sem II)**

This course is designed to explore the death process. The various theories and philosophies about death and dying will be explored initially. The course will then look at the sociological and psychological reactions to the dying process. Finally, the sociological, psychological and religious meaning and impact of the funeral and reactions will be explored. 3 lecture hours.

**SOCL 261 Sociology of Relationships and Families 3 hrs (Sem I, II)**

This course is designed to examine the sociological and psychological dynamics of dating, relationships, marriage, family life and parenting. Emphasis will be placed on how our contemporary society and culture is affecting these institutions and customs. The course will also explore the impact of divorce and stepfamilies on today's lifestyles. 3 lecture hours.

**SOCL 266 Human Behavior in the Social Environment 3 hrs (Sem II)**

Prerequisites: SOCL 151, 153, 240, 250, 251 and 252. This course examines the behavior of individuals and the family as social systems. It will explore variations in the functioning of individuals and groups in society and will identify related macro social welfare needs. It also reviews and synthesizes concepts and materials from previous courses. Exit exam for social work and gerontology majors is administered as a part of this course. 3 lecture hours.

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**SOCL 270 Leadership Education and Development** **3 hrs (Sem I, II)**

The aim of this course is to give students an understanding of leadership to increase one's awareness of what it means to be a leader and to develop one's capacity to manage the roles of leadership and authority. The purpose of this course and the proposed outcomes are to develop students' understanding in a variety of situations; awareness of their own skills, interests and group settings; awareness of leadership theories; change, conflict, time, and stress management skills, meeting and project planning skills; and to encourage students to discover themselves and their potential. 3 lecture hours.

**SOCL 280 Therapeutic Interventions with Substance Abusers II** **3 hrs (Sem II)**

An advanced counseling course focusing on individual and group treatment interventions with substance abusers. The various treatment models (medical, behavioral, and social) will be explored in depth. Individual and family dynamics and support systems will also be covered. Group techniques including self-help groups will be heavily emphasized, as will working with minority groups. Students will be required to demonstrate a minimum counseling proficiency through an actual supervised field placement during the semester. (Available as WEB-based course only.) 3 lecture hours.

**SOCL 281 Substance Abuse Treatment Programs** **3 hrs (Sem II)**

A course designed to explore the various types of treatment programs available, state and federal regulations and laws governing those programs. Included will be a discussion of voluntary and involuntary treatment and liability. Administrative areas to be explored will be supervision techniques, grant writing and inter-agency cooperation, and employee assistance programs. Techniques of prevention will also be explored. (Available as WEB-based course only.) 3 lecture hours.

**SOCL 282 Practicum in Substance Abuse Counseling** **3 hrs (Sem II)**

Prerequisites: SOCL 180, 181, 280 and 281 (or concurrent enrollment in SOCL 280 and 281). This course provides the student with 220 clock hours of supervised experience in the 12 core functions of alcohol and/or drug abuse counseling (screening, intake, orientation, assessment, treatment planning, counseling, case management, crisis intervention, client education, referral, reports/record keeping, consultation.) Such supervision will consist of both directly supervised experience (counselor with supervisor) and experience performed by the student which is then reported to and evaluated by the supervisor. Students will be assigned to work in substance abuse treatment centers throughout southwestern Indiana. Progress will be monitored by a faculty member in collaboration with your field supervisor. Minimum of 110 practicum hours.

**Spanish**

**SPAN 100 Basic Conversational Spanish** **2 hrs (Sem I, II)**

An introduction to basic vocabulary, structures, and cultural information needed for communication while traveling in Spanish-speaking countries and Spanish-speaking regions of the United States. 2 class hours.

**SPAN 101 Spanish Level I** **4 hrs (Sem I, II)**

An introduction to the Spanish language and culture with emphasis on listening and speaking skills. Guided communication tasks, vocabulary building. Use of audio-visual aids, video, language lab, and "less-stress" techniques. This course is a transferIN course. 4 class hours.

**SPAN 103 Spanish Level II** **4 hrs (Sem I, II)**

Prerequisite: SPAN 101 or appropriate placement test score. A continuation of SPAN 101 with structured oral communication, vocabulary building. Continued emphasis on listening and speaking skills. Reading of graded and glossed materials, basic grammatical structures, writing. *This course is a transferIN course.* 4 class hours.

**SPAN 117 Basic Conversational Spanish II** **2 hrs (Offered on Demand)**

Prerequisite: SPAN 100. This course allows further practice with topics presented in SPAN 100 Basic Conversational Spanish. In addition, students expand their ability to ask questions designed to elicit simple responses from native speakers and increase their skills at recognizing those responses. Also, with the assistance of the instructor, each student develops a scenario of simple Spanish phrases, statements, and questions unique to his or her own needs for communicating with native speakers. 2 class hours.

**SPAN 118 Conversational Spanish for Public Safety** **3 hrs (Sem II)**

Prerequisite: Completion of SPAN 101. This course is designed to provide English-speaking working professionals in public safety and emergency management with necessary skills to communicate with Spanish-speaking individuals. Students will be introduced to basic vocabulary and phrases for introductions and information gathering. Students will work with basic commands that will be necessary for controlling on-the-scene accident and emergency sites. Important and helpful cultural information will also be discussed. 3 lecture hours.

**SPAN 123 Survival Spanish for Social Workers** **2 hrs (Offered on Demand)**

This course provides working professionals in social service agencies and/or majors in Social Work an opportunity to become proficient in occupationally specific areas of the Spanish language and Hispanic culture. 2 class hours.

**SPAN 124 Survival Spanish for Nurses I** **2 hrs (Offered on Demand)**

This course is designed to help English-speaking nurses learn the Spanish language and Hispanic culture needed to work with Spanish-speaking patients. Students learn to do the following in Spanish: greet and calm patients, assess needs, and give directions concerning treatment and laboratory procedures. No previous knowledge of Spanish is required. 2 class hours.

**SPAN 127 Survival Spanish for Horticulture Majors** **3 hrs (Offered on Demand)**

This course is designed to help English-speaking horticulture students and/or professionals in the horticulture industry learn the Spanish language and Hispanic culture needed to work with Spanish-speaking employees in landscaping firms and nurseries. Students learn to do the following in Spanish: hire and dismiss employees, orient new employees, supervise employees on the job site, respond to an emergency, tell time, and make and receive telephone calls. 3 class hours.

**SPAN 201 Spanish Level III** **4 hrs (Sem I)**

Prerequisite: SPAN 103 or appropriate placement test score. Emphasis on reading. Conversation coordinated with reading of cultural text, written and oral reports. Continued study of grammar structures, vocabulary building. *This course is a transferIN course.* 4 class hours.

**SPAN 203 Spanish Level IV** **4 hrs (Sem II)**

Prerequisite: SPAN 201. A continuation of SPAN 201 with emphasis on writing. Cultural and contemporary topics. *This course is a transferIN course.* 4 class hours.

**SPAN 211 Intermediate Spanish Readings I** **3 hrs (Sem I)**

Prerequisite: SPAN 201. Exploration of strategies helpful in reading literature in Spanish. Introduction to basic terms and concepts in literary analysis. Readings from Spanish and/or Spanish American works. 3 class hours.

**SPAN 212 Intermediate Spanish Readings II** **3 hrs (Sem II)**

Prerequisite: SPAN 201. Exploration of strategies helpful in reading literature in Spanish. Introduction to basic terms and concepts in literary analysis. Readings from Spanish and/or Spanish American works. Works read will be different from those in SPAN 211. 3 class hours.

**SPAN 217 Intermediate Conversational Spanish** **2 hrs (Offered on Demand)**

Prerequisite: SPAN 201. This course is designed to provide students at an intermediate level of proficiency additional listening and speaking practice in Spanish. Conversation is coordinated with readings on cultural and contemporary topics. Students engage in dialogs and make short oral presentations. 2 class hours.

**§SPAN 230 Survey of Spanish Civilization<sup>R/W/S</sup>** **3 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, *and* SPAN 201. An examination of Spanish culture: arts, literature, political and social institutions, history, and geography. Exploration of similarities and differences between contemporary Spanish and North American lifestyles. 3 class hours.

**§SPAN 240 Survey of Spanish American Culture<sup>R/W/S</sup>** **3 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, *and* SPAN 201. An examination of the culture of Spanish America: arts, literature, political and social institutions, history, and geography. Exploration of similarities and differences between contemporary Spanish American and North American lifestyles. 3 class hours.

### Speech

**SPCH 009 Fundamentals of Speech** **3 hrs (Sem I, II)**

This course is designed to assist students in developing a more positive self-concept through basic oral communication. Special attention will be given to listening and the expression of ideas in one-to-one communication. The course will reinforce other developmental courses in reading, writing, and study skills. 3 class hours.

**SPCH 110 Introduction to Public Speaking** **1 hr (Offered on Demand)**

This course emphasizes the study of the fundamentals of speech preparation, audience analysis, outlining and research; delivery, attention, interest and interaction; and critical evaluation. The three social levels of speech are targeted: interpersonal, group, and public communication. 1 class hour.

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**SPCH 120 Preparing and Giving a Briefing** **1 hr (Offered on Demand)**

Topics include planning the briefing, analyzing the audience, defining the objective, structuring the briefing, supporting your objective with argument, narrative, question and answer, alternatives, designing the visual aids, selecting the medium, delivering the briefing, rehearsing, listening to criticism, and revision. 1 class hour.

**§SPCH 140 Introduction to Speech** **2 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. This is a study of basic principles of oral communication through organization and delivery of various types of speeches. 2 class hours.

**§SPCH 143 Speech** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. Introduces fundamental concepts and skills for effective public speaking including audience analysis, outlining, research, delivery, critical listening and evaluation, and the use of visual aids/technology. *This course is a transferIN course.* 3 class hours.

**§SPCH 148 Interpersonal Communication<sup>W</sup>** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. A course providing theory, actual practice, and criticism for examining and changing human interactions in work, family, and social contexts. The course will focus on perception, message encoding and decoding, feedback, listening skills, causes for communication breakdowns, and other elements affecting interpersonal communication. *This course is a transferIN course.* 3 class hours.

**§SPCH 160 Introduction to Public Relations<sup>R/W/S</sup>** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. This course is designed to acquaint students with the essentials of public relations practices. The study includes perusal of the various publics served, fact-finding techniques, attitude analysis, and behavioral patterns. The discussion centers on a basic understanding of the principles in the field of public relations. 3 class hours.

**§SPCH 201 Voice and Articulation<sup>S</sup>** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. A course designed to assist students to understand the anatomy and function of their own voice mechanism. Emphasis will be placed on breathing, phonation, resonance, and articulation in acceptable American speech. This course will require students to learn the International Phonetic Alphabet and evaluate their own speech characteristics such as quality, rate, pitch, and volume. Designed for education, pre-law, business, broadcast, general studies, theatre and/or speech majors. Required of speech majors at Indiana State University. 3 class hours.

**§SPCH 202 Oral Interpretation of Literature<sup>S</sup>** **3 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. A course designed to develop the students' ability to communicate literature to an audience and to augment the students' appreciation of literature. 3 class hours.

**Study Skills**

**SSKL 099 Self-paced Basic Skills Review: CAI** **3 hrs (Sem I, II)**

This course is designed for students, particularly off-campus students, who need assistance with the basic skills necessary for success in academic programs and in the workplace. A user-friendly interactive computer-delivered instructional system, customized to the students' needs, will be used to improve the students' academic skills. The self-paced course has been developed specifically for students who have not learned from more traditional instructional approaches or adults who have been out of school for a number of years. The individualized instructional program allows the students to monitor their progress as they strengthen their skills. Students can use any or all of the interactive computer-delivered courseware in reading, writing, and mathematics. Placement into and completion of this course will be determined by Accuplacer, the VU placement test. Other standardized tests (SAT, ACT, ASSET) which correlate with Accuplacer may be submitted. Students may repeat this course if needed as they improve their basic skills proficiency to an appropriate level to enroll in college level classes. The class uses computer-based learning of skills and strategies in conjunction with learning centers and individual students. An open entry fee will be charged per user per calendar year off-campus at IPSE Living Centers and on campus. A CD-ROM version is also available for individual off-campus students at a fee per user per calendar year. *Off-campus students* who do not complete the course within one calendar year of the enrollment date must re-enroll. *On-campus students* who do not complete the course within one semester of the enrollment date must re-enroll. 3 class hours.

**SSKL 101 Special Topics in Study Skills** **2 hrs (Sem I, II)**

This course will be designed to meet the needs of individual departments or areas. Specific content will be determined by the departments requesting the course. Emphasis will be placed on developing study, reading, note taking and testing skills necessary for success in students' major. 2 class hours.

**SSKL 102 Spelling Improvement** **2 hrs (Sem I, II)**

This in-depth course is designed to assist students in acquiring a proficiency in spelling skills. Typically the class will begin the fourth week of each semester. Students may enroll at registration or they may be referred by their English instructors. 2 class hours.

**SSKL 103 Study Skills** **3 hrs (Sem I, II)**

This course is designed to assist students in developing basic study skills. Course content includes academic skills, life management skills, and information pertinent to VU. Specific topics include goal-setting, textbook reading, test-taking, stress management, critical thinking, library skills, note taking, listening, memory, career planning, and organizational skills. 3 lecture hours.

**SSKL 104 Success Strategies** **3 hrs (Sem I, II)**

This course is designed to assist students in developing the motivation and self-esteem necessary for success in college. Specific topics include self-awareness, dealing with stress, personal and time management, setting and achieving goals, self-motivation, effective communication, self-discipline, assessing strengths and weaknesses, and personal and academic responsibility. 3 class hours.

**SSKL 105 Learning Strategies** **3 hrs (Sem I, II)**

Prerequisites: A grade of C or better in READ 009 and ENGL 009, or appropriate test scores. This course is designed to assist college students in developing the higher learning strategies necessary for success in college. Students will be introduced to procedures and techniques, which facilitate the efficient use of their learning capacity. Acquisition of textbook reading skills and college study skills through practical applications on a target course of the student's choice. 3 class hours.

**SSKL 106 Career Planning** **2 hrs (Sem I, II)**

The purpose of this course is to assist students in examining the components of career choice, especially as it relates to the selection of a college major or a career direction. It is appropriate for students who are uncertain about an educational goal. The focus is on career awareness, personal awareness, and educational awareness as they relate to the process of career choice. Emphasis is placed on planning skills, self-assessment, career options, gathering occupational information, decision making strategies, interviewing skills, and job search techniques. 2 class hours.

**Learning Disability Services**

**SSTP 007 Compensatory Skills I: Tutorial** **1 hr (Sem I, II)**

Designed as a transition from SSTP 009, this course assists learning disabled students to acquire the skills needed for content area 009 courses. Methods employed include multisensory and autotutorial approaches. The course is graded on a pass/fail basis. Because this is a skills development course, students may enroll more than once. A special STEP Program fee will be charged. 1 class hour.

**SSTP 008 Compensatory Skills II: Tutorial** **2 hrs (Sem I, II)**

May be considered an extension of SSTP 007 or a separate learning situation. Designed to meet the needs of LD students. Instruction will be one-on-one. This course is graded on a pass/fail basis. Because this is a skills development course, students may enroll more than once. A special STEP Program fee will be charged. 2 class hours.

**SSTP 009 Multi-Sensory Approaches to Learning** **3 hrs (Sem I, II)**

Designed to function as a small group multi-sensory approaches classroom situation. Methods used include (but are not limited to) Ortin-Gillingham, Schmerler, and Herman Method. This course is graded on a pass/fail basis. Because this is a skills development course, students may enroll more than once. A special STEP Program fee will be charged. 3 class hours.

**SSTP 011 Phonetic Reading Skills** **3 hrs (Sem I, II)**

This course is designed to provide students with the basic phonetic skills necessary for reading. Students who take this class must still comply with institutional reading requirements. 3 lecture hours.

**SSTP 020 STEP Tutorial I** **1 hr (Sem I, II)**

This course is an individualized tutorial on an arranged basis for STEP students only. The course carries a special STEP Program fee. Students may take SSTP 020 and 021 concurrently or with any other SSTP class. *The class may be repeated.* 1 lecture hour.

**SSTP 021 STEP Tutorial II** **1 hr (Sem I, II)**

This course is an individualized tutorial on an arranged basis for STEP students only. The course carries a special STEP Program fee. Students may take SSTP 020 and 021 concurrently or with any another SSTP class. *The class may be repeated.* 1 lecture hour.

**SSTP 111 Coping in College I** **2 hrs (Sem I, II)**

*For STEP Program students only.* This academic class is run as a work shop/seminar for learning disabled students. This class will address issues such as compensatory techniques, coping and adaptation skills, stress and socialization skills. This course is mandatory for all STEP Program students. A special STEP Program fee will be charged. 2 class hours.

**SSTP 112 Coping in College II** **2 hrs (Sem I, II)**

*For STEP Program students only.* This class is a continuation of SSTP 111 with an emphasis on socialization and learning skills. The course is mandatory for all second semester STEP students. A special STEP Program fee will be charged. 2 class hours.

**SSTP 113 Coping in College III** **2 hrs (Sem I, II)**

*For STEP Program students only.* This class is a continuation of SSTP 112 with an emphasis on interpersonal and mentoring skills. The course is mandatory for all third semester STEP students. A special STEP Program fee will be charged. 2 class hours.

**SSTP 114 Coping in College IV** **2 hrs (Sem I, II)**

*For STEP Program students only.* This class is a continuation of SSTP 113. It is individualized with an emphasis for career planning, job seeking skills and social skills and includes a retreat. A special STEP Program fee will be charged. 2 class hours.

**SSTP 116 Independent Academic Improvement** **1 hr (Sem I, II)**

*For STEP Program students only.* This course is designed to allow STEP students one hour of supervised academic instruction. Enrollment is limited only to those students who have completed SSTP 111, 112 and 113 or by permission of Department Chair. Class is taught on arranged basis only. Students who are continuing in the STEP Program are permitted multiple enrollments in this course. A special STEP Program fee will be charged. 1 class hour.

**Surgical Technology**

**§SURG 100 Surgical Technology I** **5 hrs (Sem I)**

Prerequisites: Admission to the Surgical Technology Program and a grade of C or better in READ 011 and MATH 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Corequisite: SURG 105. Introduces theory necessary to function as a beginning surgical technologist. Includes basic concepts necessary to establish, maintain and coordinate the methods required for good patient care preoperatively, intraoperatively, and postoperatively. Surgical terminology, microbiology, principles of asepsis, ethical, legal and moral responsibilities along with safe patient care, principles of operating room techniques to include hazards in the surgical suite. Responsibilities of a surgical technologist are defined. 5 lecture hours.

**§SURG 105 Surgical Technology Application** **4 hrs (Sem I)**

Prerequisites: Admission to the Surgical Technology Program and a grade of C or better in READ 011 and MATH 011, or SAT Reading score of 420 or greater, or appropriate placement test scores. Corequisite: SURG 100. Acquaints students with the skills necessary to function as a beginning surgical technologist. Emphasis is placed on the surgical scrub, gowning and gloving, establishing and maintaining a sterile field, draping materials, needles, sutures, basic instrumentation, preparation and sterilization of supplies. Allows students to develop skill in taking vital signs, transporting, positioning, prepping the surgical patient as well as basic operating room techniques. 12 college/clinical laboratory hours arranged.

**SURG 110 Pharmacology for Surgical Technologists** **2 hrs (Sem II)**

Prerequisites: SURG 100 and 105. Introduces the scientific principles of biological science and pharmacology. Defines the rationale for use of specific drugs, their therapeutic effects and major side effects on the surgical patient, and their influence on surgical intervention. Emphasizes responsibility regarding pharmaceuticals in the operating room. 2 lecture hours.

**§SURG 120 Surgical Technology II<sup>R/S</sup>** **11 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and SURG 100 and 105. Emphasis is placed upon the working relationship with the surgical team members and operative procedures which are explained by specialty as the student applies skills learned in the first semester to actual procedures. Instrumentation, anatomy and physiology, and

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medical terminology are reviewed and basic operating room techniques are practiced in the clinical setting. The theory and application to procedures will be given, beginning with basic specialties and progressing to the more advanced procedures. Application of theory to the clinical setting is emphasized through lecture and clinical practice. 4 lecture hours, 21 clinical laboratory hours arranged.

**SURG 200 Surgical Technology III** **2 hrs (Summer)**

Prerequisite: A grade of C or better in SURG 120. The student will learn more complex procedures and continue the learning process from Surgical Technology II. With classroom lecture, the student will learn to select instrumentation and supplies for these surgical procedures. The student will also apply previously learned principles of anatomy and physiology, medical terminology, and pharmacology. The student is encouraged to continue development of sterile consciousness to work more confidently within the surgical environment. A brief review of basic procedures, anesthesia, microbiology, and an introduction to laser, medical/legal criteria, job interviews and resumes are also covered. 30 lecture hours (three-week course).

**SURG 225 Professional Practice<sup>W</sup>** **4 hrs (Summer)**

Prerequisite: A grade of C or better in SURG 200. This is a five-week course which allows students to apply learning received throughout the previous semesters to surgical procedures. Particular attention will be given to the student as he/she continues to participate as a member of the surgical team and interacts in the role of a surgical technologist. Emphasis is placed on gaining more clinical experience in a variety of surgical procedures. 40 clinical experience hours per week (five-week course).

**SURG 230 Surgical Pharmacology** **3 hrs (Sem II)**

Prerequisites: Admission to the Surgical Assisting Program. The course is designed to promote an understanding of the effects of pre- and post-operative drugs on body systems of the surgical patient. Focus is also directed to drugs, intravenous fluids and blood replacements as they are used intra-operatively, as well as the effects of anesthetic agents. This course includes an overview of the history, development, and standardization of pharmacology. Introduces measurement systems, conversions, and medical abbreviations. Specific surgical drugs are categorized and the rationale given for their use. Explains and emphasizes medical and legal responsibilities of the surgical technologist regarding pharmaceuticals in surgery. *Internet Delivery Only*. 3 lecture hours.

**SURG 235 Biosciences for Surgical Assisting I** **2 hrs (Sem I)**

Prerequisites: Admission to the Surgical Assisting Program. The eight-week course, offered the first half of the semester, introduces the student to basic and perioperative microbiology theory, principles, and procedures and their correlation with wound infections and the healing process. Also covered are robotics, electricity and basic physics as applied to surgery. *Internet Delivery Only*. 2 lecture hours. 8-week course.

**SURG 240 Biosciences for Surgical Assisting II** **2 hrs (Sem I)**

Prerequisite: SURG 235. This eight-week course, offered the second half of the semester, introduces the student to the basic diagnostic tests for the surgical patient, interpretation of these tests, handling and identification of the surgical specimen, surgical patient fluid and nutritional balances, surgical complications, standard precautions, and HIPAA regulations. *Internet Delivery Only*. 2 lecture hours. 8-week course.

**SURG 245 Fundamental Skills in Surgical Assisting** **1 hr (Sem I)**

Prerequisite: Admission to the Surgical Assisting Program. This eight-week course, offered the first half of the semester, is designed to introduce the student to the theories involved in surgical assisting. These theories include the purpose and proper utilization of monitoring devices, asepsis, catheterization, instrumentation, special equipment and hemostasis. Surgical indications for proper positioning and body dynamics, prepping and draping, dressings, and assessment and management of special needs patients are included. Also addressed is the theory behind proper wound closure techniques and materials, wound healing, and computer applications. *Internet Delivery Only*. 1 lecture hour. 8-week course.

**SURG 250 Roles and Ethics in Surgical Assisting** **1 hr (Sem I)**

Prerequisites: Admission to the Surgical Assisting Program. This eight-week course, offered the second half of the semester, instructs the student to identify factors that result from positive team relationships, practice of professional ethics, and conformity with legal requisites. The student will also interpret and discuss the ethical and legal responsibilities as they relate to the surgical assisting role. Also included are: stress management, patients' rights, and decision-making skills. Methods used in the course are instruction via the Internet to enhance the student's basic understanding of the computer, and also clinical assignments that utilize computer use in the hospital and doctor's office settings. *Internet Delivery Only*. 1 lecture/laboratory hour. 8-week course.

**SURG 260 Surgical Specialties and Procedures I** **2 hrs (Sem I)**

Prerequisites: Admission to the Surgical Assisting Program. This eight-week course, offered the first half of the semester, correlates human anatomy and physiology with surgical techniques employed by the surgeon and the surgical assistant. It includes surgical procedures, approaches, and wound closures as these relate to specific anatomical structures and landmarks. This section covers general surgery, gynecological/obstetrics, and endoscopic procedures. *Internet Delivery Only*. 2 lecture hours. 8-week course.

**SURG 265 Surgical Specialties and Procedures II** **2 hrs (Sem I)**  
Prerequisite: SURG 260. This course is a continuation of SURG 260 and is an eight-week course offered the second half of the semester. This course covers genitourinary and orthopedic procedures. *Internet Delivery Only*. 2 lecture hours. 8-week course.

**SURG 267 Surgical Specialties and Procedures III** **2 hrs (Sem II)**  
Prerequisites: SURG 260 and SURG 265. This course is a continuation of SURG 265 and is an eight-week course offered the first half of the semester. This course covers otorhinolaryngology, plastics, and reconstructive surgery. *Internet Delivery Only*. 2 lecture hours. 8-week course.

**SURG 269 Surgical Specialties and Procedures IV** **2 hrs (Sem II)**  
Prerequisites: SURG 260, SURG 265 and SURG 267. This course is a continuation of SURG 267 and is an eight-week course offered the second half of the semester. This course covers thoracic, cardiovascular, peripheral vascular, and neurosurgical procedures. *Internet Delivery Only*. 2 lecture hours. 8-week course.

**SURG 270 Clinical Skills I** **3 hrs (Sem I)**  
Prerequisite: Admission to the Surgical Assisting Program. In the clinical setting the student will perform the duties of the surgical assistant during operative procedures, patient rounds, and office practice under the direct supervision of the attending surgeon. The case variety and number will be selected in accordance with accreditation standards. The attending surgeon will dictate patient assignments for rounds and office practice. A minimum of 9 clinical hours as arranged by program director to obtain the required number of operative procedures. Suggested goal for this course is a minimum of 50 procedures. Practicum at the clinical site.

**SURG 275 Clinical Skills II** **3 hrs (Sem II)**  
Prerequisites: SURG 270. This course is a continuation of SURG 270 Clinical Skills I. A minimum of 9 clinical hours as arranged by program director to obtain the required number of operative procedures. Suggested goal for this course is a minimum of 85 procedures. Practicum at the clinical site.

### **Surveying Technology**

**SURV 100 Surveying Fundamentals** **3 hrs (Sem I, II)**  
Basic procedures employed in plane surveying; theory of errors and their analysis; theory and use of surveying equipment; accuracy appraisal and adjustment; development of surveying techniques and surveying computations using the level, chain, and transit. Cross-sectioning, simple traverses, slope staking, level networks and percent grades are also covered in detail. 2 lecture hours, 4 laboratory hours.

**SURV 125 Land Survey Systems** **3 hrs (Sem I)**  
An introductory study of the subdivision of public lands, theory of original survey, resurvey, subdivision survey, and methods describing real property. Sources of the law and legal research methods will be covered in detail. Introduction to the current minimum standards for Indiana, field surveys and courthouse research. 2 lecture hours, 4 laboratory hours.

**SURV 155 Topographic Surveying and Mapping** **3 hrs (Sem II)**  
Prerequisite: SURV 100. Introduction to field data and its translation to map forms. Preparation of topographic contour maps, site plans, determination of drainage run-off areas and slopes from topographic surveys, quadrangle maps or aerial photographs. Determination of volumes of reservoirs, earthwork from contour maps. Original survey, retracement survey and location report plats meeting minimum State Standards. 2 lecture hours, 4 laboratory hours.

**SURV 165 Instrumentation and Control Surveying** **4 hrs (Sem II)**  
Prerequisite: Passing grade in SURV 100. Concentrated study of levels, total stations and GPS on the precision and efficiency on establishing horizontal and vertical control for a range of surveying projects. Emphasis will be on understanding the acceptable tolerances for projects, equipment, and methods required to achieve tolerances. 2 lecture hours, 6 laboratory hours.

**SURV 181 Site Surveying and Planning** **3 hrs (Sem II)**  
The fundamentals of site planning with reference to the historical, environmental, climatic, technologic, and legal aspects in site design. Introduction to use of surveying equipment and preparation of site plans, topographic maps and storm water drainage designs. 2 lecture hours, 4 laboratory hours.

**§SURV 201 Boundary Surveying and Legal Aspects<sup>R/W/S</sup> 4 hrs (Sem I)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and a passing grade in SURV 100 and SURV 125. Statute law and common law are covered. Practical description writing and interpretation including simultaneous and sequence conveyance, dedications, and reversion. Rules of evidence to include classification of evidence, burden of proof, presumptions and weights of classes of evidence. Labs will consist of completed surveys including client contact, courthouse research, data gathering decision-making, plat of survey, legal descriptions Surveyor Reports meeting current minimum standards for Indiana. 2 lecture hours, 6 laboratory hours.

**§SURV 240 Subdivision Design and Layout<sup>R/S</sup> 4 hrs (Sem II)**

Prerequisites: A grade of C or better in READ 011, or SAT Reading score of 420 or greater, or appropriate placement test scores, and SURV 201. This course is a semester projects class which will include field reconnaissance and acquisition of data for the planning and design of a subdivision; detail study of subdivision design and plan development; design of the subdivision including analysis of control and lot configuration/calculation. The design of sanitary and storm sewers, streets, lots, storm water manipulation and utility planning; the study of subdivision ordinances, governmental interaction with design and economic consideration. 2 lecture hours, 6 laboratory hours.

**SURV 250 Surveying Computations and Route/Construction Surveys<sup>W</sup> 4 hrs (Sem II)**

Prerequisite: A passing grade in SURV 165; and a grade of C or better in or concurrent enrollment in SURV 270. Computations for layout of horizontal and vertical curves, commercial and residential buildings, bridges and culverts, along with other construction projects. Emphasis on working from existing plans and replicating on the ground. Some CAD work will be utilized. 2 lecture hours, 6 laboratory hours.

**SURV 270 Surveying Applications Using Auto CAD and Related Software 4 hrs (Sem I)**

Prerequisite: DRAF 140. This course will address specific computer aided drafting techniques using Auto CAD, SURVCADD and other related software. Data recorder systems and applications will be studied in detail, including specific downloading of data acquired and stored. 3 lecture hours, 3 laboratory hours.

**SURV 272 Property Description Writing and Analysis<sup>W</sup> 3 hrs (Sem I)**

Prerequisite: SURV 125. The study of preparing clear, concise and unambiguous descriptions for real property. Also, the interpretation of ambiguous/conflicting elements of existing descriptions. Court House research and visits to abstract offices will be included in lab hours. 2 lecture hours, 3 laboratory hours.

**SURV 273 Surveying Law<sup>R/W</sup> 3 hrs (Sem II)**

Prerequisite: SURV 201. The study of the Federal and Indiana Laws including Statute and Common Law affecting surveyors. Emphasis placed on Indiana and ACSM Survey Standards. 3 lecture hours.

**SURV 280 Survey Data Acquisition and Analysis<sup>S</sup> 3 hrs (Sem II)**

Prerequisite: A passing grade in SURV 272. Topics discussed will include advancement traverse adjustments and error analysis including mensuration statistics, instrumentation with emphasis on infrared light laser and total station and data recorder technology, global positioning systems and land information systems. 2 lecture hours, 3 laboratory hours.

**SURV 310 Supervising Survey Projects 5 hrs (Sem I)**

Students enrolled in this course act as Party Chiefs supervising 1-3 survey projects being performed by surveying students in SURV 201 or SURV 250. Performing under the direct supervision of the course instructors, the student will direct the field crews, troubleshoot data acquisition, and check off on calculations and drawings. Daily, weekly, and final reports will be required. 3 lecture hours, 6 laboratory hours.

**SURV 360 Surveying Data Acquisition and GIS 5 hrs (Sem II)**

This course will discuss the methods of gathering data for a base map for a GIS (Geographic Information System). GPS and Total Stations will be used to gather data. The data, along with GIS software, will be used to create a GIS database and map. 3 lecture hours, 6 laboratory hours.

**SURV 410 Surveying Computations and Adjustments 5 hrs (Sem I)**

This course will discuss errors that are found while performing surveying measurements and the overall effect the errors have on each control point. Tolerances will also be analyzed. Presentation of adjustment techniques based on least squares adjustment principle will be introduced. 4 lecture hours, 3 laboratory hours.

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.



## Technology

### ◆TECH 300 Workplace Diversity

3 hrs (Sem I)

Prerequisite: Junior level standing or consent of the instructor. This course increases the understanding of the relationship between culture and communication, with emphasis on the impact of culture on workplace practices. Students will be introduced to the concept of an “inclusive workplace”. Additional emphasis on the advantages of diversity management as a workplace motivator will be discussed. Authentic examples and case studies will be used to bring the content life. Students will develop a “personalized” definition of workplace diversity. 3 lecture hours.

### ◆TECH 310 Technology Project Applications I

5 hrs (Sem I, II)

Prerequisites: Junior level standing or consent of the instructor. This Technology Specialist course is designed to extend the student’s technical skills in an area of technology. Each student will derive a contemporary project which is directly related to their AS/AAS degree, utilize modern techniques, and fabricate an advanced technology project. The student will coordinate their project with the BS degree instructor and a technology faculty member who has a background and expertise in the student’s AS/AAS field of technology. The student will be responsible for the project development, purchase of the components, and fabrication of the project. The student will also keep a logbook and write a final report of the completed process. 5 lecture hours.

### ◆TECH 360 Technology Project Applications II

5 hrs (Sem I, II)

Prerequisites: A grade of C or better in TECH 310; *and* junior level standing or consent of the instructor. This Technology Specialist course is a continuation of TECH 310, with the development of an enhanced multi-technical project. The student will coordinate their project with their BS degree instructor and a technology faculty member, who has a background and expertise in the student’s AS/AAS field of technology. The student will be responsible for the development, purchase of the components, and fabrication of the project. The student will also keep a logbook, write a final report of the completed process, and make a presentation of the project to the class. 5 lecture hours.

### ◆TECH 410 Technology Project Research I

5 hrs (Sem I, II)

Prerequisites: A grade of C or better in TECH 360; *and* junior level standing or consent of the instructor. This Technology Specialist course is designed to increase the student’s ability to research advancements in their technology specialty. The student will research a special area of technology that directly relates to their AS/AAS degree’s technology field. Emphasis will be placed on the relative implications and utilization of technical research as it applies to a technical project. The project and research must first be approved by the BS degree instructor and a technology faculty member, who has a background and expertise in the student’s AS/AAS field of technology. The student will be responsible for the development, purchase of the components, and fabrication of the project. The student will also keep a logbook, write a final report of the completed process, and make a presentation of the research and the project to the class. 5 lecture hours.

### ◆TECH 455 Problem Solving

3 hrs (Sem II)

Prerequisite: Junior level standing or consent of the instructor. This course is designed to introduce students to problem solving techniques which can be applied to create a more productive and efficient work environment. Topics will include, but are not limited to: problem identification, idea generation techniques, information assessment, resource analysis and allocation, ergonomics, workplace efficiency, technical communication, and group leading/interaction. The course will also cover how simple, ingenious solutions have changed the world we live in. 3 lecture hours.

### ◆TECH 490 Technology Project Research II: Capstone

5 hrs (Sem I, II)

Prerequisites: A grade of C or better in TECH 410; *and* junior level standing or consent of the instructor. This technology course is a Capstone Experience course and a continuation of TECH 410, with the development of an enhanced multi-technical research project. The project and research must first be approved by the BS degree instructor and a technology faculty member, who has a background and expertise in the student’s AS/AAS field of technology. The student will be responsible for the development, purchase of the components, and fabrication of the project. The student will also keep a logbook, write a final report of the completed process, and make a presentation of the research and the project to the class. 5 lecture hours.

## Theatre

### THEA 100 Theatre Appreciation

3 hrs (Sem I)

Prerequisite: A grade of C or better in READ 009 or SAT Reading score of 380 or greater, or appropriate placement test scores. An introduction to the understanding and appreciation of the theatre's role in the modern world, including a survey of dramatic structure and analysis and the functions of the actor, director, designer and critic. This course is a transferIN course. 3 lecture hours.

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◆ Any course identified with a ◆ requires junior level standing or consent of the instructor.

**THEA 101 Theatre Production** **1 hr (Sem I, II)**

Course is open by audition/interview only and is open to any student enrolled at VU. Students participate in a fully mounted stage production in one of the following capacities: Performer (Actor/Singer/Dancer); Technical Designer/Crew (Set, lighting, sound, or scene crew); Stage Manager/Assistant Stage Manager; Artistic Staff Assistants (Assistant Director, Musical Director, or Choreographer); Publicity/Box Office/Dramaturg; or Pit Orchestra (*Pit Orchestra is not available for Musical Theatre majors, but open for other majors or non-majors*). (All Fine Arts Theatre majors and Music Theatre majors must enroll in MUSM 104 or THEA 101 for a total of two semesters.) Hours to be arranged.

**THEA 125 Stage Make-up Design** **3 hrs (Sem II)**

This is a study of the principles, techniques, and materials of stage makeup and practical experience in their application. 3 class hours.

**§THEA 146 Fundamentals of Acting** **3 hrs (Sem I)**

Prerequisites: A grade of C or better in READ 009 and ENGL 009, or SAT Reading and Writing scores of 380 or greater, or appropriate placement test scores. A course designed to introduce students to all aspects of acting: movement, voice, improvisation, characterization, and scene study. *This course is a transferIN course*. 3 class hours.

**THEA 147 Stage Combat** **3 hrs (Sem II)**

This course is designed to introduce theatre students to the use of fight choreography with weapons and their safe use for stage and screen. Students will be introduced to foil, saber, rapier techniques and period styles of fencing. *May be offered in alternate years*. 3 class hours.

**THEA 170 Display I** **3 hrs (Sem I)**

This is a broad-based course examining the history of the display industry in America, defining what effect display has had on American culture and how it has changed over time. The course also includes a number of display assignments ranging from in-store display to large theatrical environments. 3 class hours.

**THEA 171 Display II** **3 hrs (Sem II)**

This course examines the current trends in the display industry. The course will focus on sales, contracts, budgets, client relations, design concepts, display materials, design nomenclature and the fabrication process. Students are required to build a presentation portfolio and give a presentation at the end of the course of study. 3 class hours.

**§THEA 203 Stagecraft** **3 hrs (Sem I)**

Prerequisite: A grade of C or better in READ 009 or SAT Reading score of 380 or greater, or appropriate placement test scores. A course designed to provide students with theory and practical experience in technical theatre activities. Units of study include the scene shop, building materials and hardware, two-dimensional and three-dimensional scenery, stage equipment, synthesizing scenery, rigging scenery, lighting, sound, special problems, and backstage organization and management. Lab hours are adapted to major, major option, and skill level. 3 class hours.

**THEA 204 Theatrical Scene Painting** **3 hrs (Sem I, II)**

This course is designed to give theatre students the basic foundation in the art and craft of scene painting for the theatre. Primary study in the techniques of successfully replicating scenic renderings. 3 class hours.

**THEA 205 Theatre Practicum: Directing/Playwriting** **3 hrs (Sem II)**

Prerequisites: THEA 146 and 203. This course is designed to provide beginning study in either directing for the stage or playwriting. Those involved in directing will study directing theory with practical experience in the directing of selected scenes for the stage. Those studying playwriting will study character and dialogue development and basic scene elements. This study culminates in the writing of a one-act play. 3 class hours.

**THEA 206 Theatre Practicum: Costuming** **3 hrs (Sem II)**

This course is designed to give students intensive study in an area of costuming that strongly interests the students. Students will complete projects in one or more of the following areas: costume design, costume construction, costume history, or costume theory. All participants should expect to spend fifty hours in practicum activities beyond class time. 3 class hours.

**THEA 207 Theatre Practicum: Technical Design** **3 hrs (Sem II)**

Prerequisites: THEA 125 and 203. This course encourages students to participate in a faculty directed study of the technical elements of theatre. This study would exceed the department's other technical theatre curriculum offerings. The practicum will include scene design, lighting design, and make-up design.

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§ Any course identified with a § is a protected course; see page 62 of this catalog for an explanation of protected courses.

While the topic of study will dictate the student projects, all participants should expect to spend fifty hours in practicum activity beyond class time. 3 class hours.

**THEA 225 Theatrical Costume Construction I<sup>S</sup>** **3 hrs (Sem II)**  
This course is designed to teach the techniques of costume construction for the performance media. Units will include fundamentals of costume design, organization of the costume shop, measurements, pattern and fabric selection, special sewing problems, cutting techniques, theatrical sewing techniques, and costume plotting. 3 class hours.

**THEA 226 Theatrical Costume Construction II** **3 hrs (Sem I)**  
Prerequisite: A grade of C or better in THEA 225. This is a continuation of THEA 225 designed to teach the techniques of costume construction for the performance media. Units will include design techniques and concepts, budgeting and buying, sources of supplies, fitting, pattern alteration, draping, decoration, and selection of costume accessories. 3 class hours.

**§THEA 245 Theatre History I<sup>R/W</sup>** **3 hrs (Sem I)**  
Prerequisites: A grade of C or better in READ 011 and ENGL 009, or SAT Reading score of 420 and SAT Writing score of 380 or greater, or appropriate placement test scores. A survey course emphasizing the historical development of the theatre from the Greek Period to the Romantic Period and introducing the basic aspects of technical theatre. 3 class hours.

**THEA 246 Acting II<sup>R/W</sup>** **3 hrs (Sem I, II)**  
Prerequisite: THEA 146. A continuation of the study of acting techniques with major emphasis on character analysis and development. 3 class hours.

**§THEA 250 Theatre History II<sup>R/W</sup>** **3 hrs (Sem II)**  
Prerequisites: A grade of C or better in READ 011 and ENGL 009, or SAT Reading score of 420 and SAT Writing score of 380 or greater, or appropriate placement test scores. A survey course emphasizing the historical development of performance and technical theatre from the Romantic Period to the present day. 3 lecture hours.

### **Tractor-Trailer Driver Training**

**TTDT 100 Basic Commercial Motor Vehicle Operation** **3 hrs (Sem I, II, Summer)**  
This course teaches information contained in the Federal Motor Carrier Safety Regulations, the Commercial Drivers License (CDL) Manual, and the Tractor-Trailer Driver Manual. Students are prepared for Commercial Driver License learner's permit testing in areas of safe driving, handling of hazardous materials and combination vehicle characteristics. Students will become familiar with log keeping, map reading, and federal requirements concerning accident scene safety and reporting procedures. Also included is the National Safety Council's Defensive Driving Course for Professional Truck Drivers. This course may be taken in conjunction with the Tractor-Trailer Driver Training course or separately. Meets 40 practicum hours.

**TTDT 110 Basic Motor Coach Preparation** **3 hrs (Sem I, II, Summer)**  
This course teaches Federal Motor Carrier Safety Regulations and the Commercial Driver License (CDL) manual. Students are prepared for the CDL learner's permit written test in the general knowledge areas of safe driving, passenger vehicle characteristics and air brake systems. Also covered are hours of service regulations, pre-trip inspection procedures, and the National Safety Council's Defensive Driving Course. Meets 40 practicum hours.

**TTDT 125 Preventive Maintenance** **3 hrs (Sem I, II, Summer)**  
This course utilizes information contained in the Federal Motor Carrier Safety Regulations, the Commercial Drivers License (CDL) Manual, and the Tractor-Trailer Driver Manual to acquaint the student with the various systems peculiar to tractor-trailer operation. Students will be instructed regarding operation and maintenance of air braking systems, drive train components and coupling systems and will be trained to perform proper vehicle inspections according to CDL requirements. This course may be taken in conjunction with the Tractor-Trailer Driver Training course or separately. Meets 40 practicum hours.

**TTDT 150 Tractor-Trailer Basic Control Skills** **5 hrs (Sem I, II, Summer)**  
This course is largely hands on training, utilizing information taught in TTDT 100 and 125. Students will learn coupling/uncoupling procedures and will become proficient in all backing skills required for Commercial Driver License (CDL) skill testing. A driving fee will be charged. Meets 80 practicum hours.

**TTDT 151 Basic Control Skills** **3 hrs (Sem I, II, Summer)**  
Corequisites: TTDT 100 and TTDT 125. This course teaches basic off highway skills needed for the safe operation of Class "A" commercial vehicles. Skills taught are: coupling/uncoupling; straight line backing; alley docking; parallel parking; and, backward serpentine or off-set backing in preparation for the federally mandated CDL skills examination. A driving fee will be charged. Meets 45 practicum hours.

**TTDT 170 CDL Advanced Tractor-Trailer Operation** **3 hrs (Sem I, II, Summer)**  
This elective course is designed to accommodate drivers who have previous experience in handling Class A Vehicles but have not obtained a Commercial Drivers' License, focusing primarily on fine tuning basic control skills, pre-trip inspection procedures, and proper handling of the vehicle on public streets and highways. Basic knowledge of tractor-trailer operation and a CDL Learner's permit is required. There is no classroom instruction in this course. A driving fee will be charged. A certificate of completion is awarded. Meets 120 practicum hours.

**TTDT 175 Tractor-Trailer Road Driving** **10 hrs (Sem I, II, Summer)**  
Prerequisite: Completion of TTDT 100, 125, and 150 with minimum scores of 80 percent on a Class A CDL permit. This course focuses on safe and proper handling of tractor-trailers on public highways and city streets. Students will be exposed to a variety of driving experiences, including coupling/uncoupling, loading/unloading, driving on two-lane roads as well as expressways, rush hour traffic, hilly and curvy terrain, and night driving. Students can expect to spend a minimum of 30 hours behind the wheel (approximately 1000 miles), will conduct daily vehicle inspections, maintain a daily logbook and participate in map reading exercises. Students will complete the course by taking a road test conforming to CDL guidelines and will be tested by a CDL examiner as required by state regulations to receive a Commercial Drivers License. A driving fee will be charged. Meets 160 practicum hours.

**TTDT 176 Road Driving** **3 hrs (Sem I, II, Summer)**  
Prerequisites: A grade of C or better in TTDT 150 or TTDT 151 and possession of a valid operator's license and a Class "A" CDL learner's permit. This course teaches basic road driving skills necessary for the safe operation of Class "A" commercial vehicles. Students will drive at least 20 hours on city streets and local interstate highways or expressways and will include multiple terrains and weather conditions as available in preparation for the federally mandated CDL skills examination. Course may be taken in conjunction with current TTDT 100 and TTDT 125 courses or following satisfactory completion of same. A driving fee will be charged. Meets 45 practicum hours.

**TTDT 180 Tractor-Trailer Externship** **10 hrs (Sem I, II, Summer)**  
Prerequisites: A grade of C or better in TTDT 176 and the CDL skills test. Also must obtain a class "A" CDL. Upon successful completion of TTDT 176 and possession of a Class "A" CDL, the student will be placed with an approved motor carrier in an entry level driver position for a minimum of three weeks as a method of refining driving, backing and vehicle inspection skills. Student will complete a company orientation program of the carrier's choice; will log a minimum of 100 supervised driving hours while hauling loads relative to the carrier's business and conduct routine vehicle inspections and backing exercises on a daily basis. Upon completion of this externship, the student will return to a Vincennes University CDL training site for a two-hour re-evaluation of skills relative to inspection and basic operation of the Class "A" commercial vehicle. Upon successful completion of the re-evaluation and receipt of all required documentation, student will be awarded a certificate of completion from the Tractor-Trailer Driver Training program. Course meets a minimum of 150 practicum hours.

**TTDT 184 Motor Coach Operation** **3 hrs (Sem I, II, Summer)**  
Prerequisites: A grade of C or better in TTDT 100, TTDT 125, TTDT 150 and TTDT 175; and possession of a valid operator's license or a current Class "A" CDL and a Class "A-P" CDL learner's permit. This course teaches basic control skills required for the safe operation of a commercial motor coach. Students will learn pre-trip inspection procedures, backing skills, and highway-driving skills utilizing information learned in TTDT 100 and TTDT 125. Students can expect to receive approximately 20 hours behind the wheel instruction. Students must possess a current DOT physical examination and submit to a federally mandated drug screen. Students will complete the course by submitting to a road test conforming to CDL guidelines and will be tested by a CDL examiner as required by state regulations to receive a "P" endorsement on their Class "A" CDL. A driving fee will be charged. Meets 45 practicum hours.

**TTDT 185 Motor Coach Operation** **3 hrs (Sem I, II, Summer)**  
Prerequisite: A grade of C or better in TTDT 110; and possession of a valid operator's license and a Class "B-P" CDL learner's permit. This course teaches basic control skills required for the safe operation of a commercial motor coach. Students will learn pre-trip inspection procedures, backing skills, and highway-driving skills utilizing information learned in TTDT 110. Students can expect to receive approximately 20 hours behind the wheel instruction. Students must submit to and pass a DOT physical examination and federally mandated drug screen, the cost of which is included in the driving fee. Students will complete the course by submitting to a road test conforming to CDL guidelines and will be tested by a CDL examiner as required by state regulations to receive a Commercial Driver License. A driving fee will be charged. Meets 44 practicum hours.

**TTDT 205 Tractor-Trailer Operation I** **4 hrs (Sem I)**

This course is designed to prepare students to pass state licensing written tests needed to obtain a Commercial Driver License learner's permit. During labs, students will become proficient in coupling and uncoupling, proper inspection procedures, and six basic control exercises peculiar to tractor-trailer operation. Students will also be required to submit to and pass a DOT physical examination and drug screen sometime during the semester, the cost of which is included in the lab fee. 3 lecture hours, 4 laboratory hours.

**TTDT 210 Tractor-Trailer Operation II** **4 hrs (Sem II)**

Prerequisite: A grade of C or better in TTDT 205. This course builds on the skills developed in TTDT 205. Class discussions concerning safe handling of various types of tractor-trailer rigs under a variety of conditions, accident prevention, highway courtesy, and the National Safety Council's Defensive Driving Course for Professional Truck Drivers are covered. Students will become proficient in safe driving procedures while driving Class A vehicles on city streets as well as two- and four-lane highways. A driving fee will be charged. 3 lecture hours, 4 laboratory hours.

**Welding Technology****WELD 101 Oxy-Acetylene Welding** **3 hrs (Sem I)**

A basic class in the theory and application of Oxy-Acetylene welding and cutting, including the correct use and maintenance of oxy-acetylene equipment and accessories. Proper techniques of welding, cutting and brazing with emphasis of safe welding practice are covered extensively. Types of welds covered include stringer beads, tee lap and butt joints on light gage steel. These welds will be made in the flat, horizontal and vertical positions in the forehand technique. 2 lecture hours, 4 laboratory hours.

**WELD 102 Shielded Metal Arc Welding I** **3 hrs (Sem I)**

This course involves the theory and application of the Shielded Metal Arc Welding process. Process theory will include basic electricity, power sources, electrode selection and all aspects pertaining to equipment operation and maintenance. Laboratory welds will be performed in basic weld joints with a variety of electrodes in the flat, horizontal and vertical positions. Emphasis will be placed on developing the basic skills necessary to comply with AWS industry standards. 2 lecture hours, 4 laboratory hours.

**WELD 103 Gas Metal Arc Welding** **3 hrs (Sem I)**

A course designed to cover the operation of Gas Metal Arc Welding (MIG) equipment. This will include all settings, adjustments and maintenance needed to weld with a wire feed system. Instruction on both short-arc and spray-arc transfer methods will be covered. Tee, lap and open groove joints will be done in all positions with solid, fluxcore and aluminum wire. Test plates will be made for progress evaluation. 2 lecture hours, 4 laboratory hours.

**WELD 104 Gas Tungsten Arc Welding** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in WELD 101. The theory and practical application of the Gas Tungsten Arc Welding process. Topics to be addressed will be shielding gas, electrode, current and polarity selection including all settings necessary to perform the GTAW process on steel, stainless, aluminum and the root penetration on steel pipe. All lab assignments will be evaluated to AWS industry standards. 2 lecture hours, 4 laboratory hours.

**WELD 105 Shielded Metal Arc Welding II** **3 hrs (Sem II)**

Prerequisite: A grade of C or better in WELD 102. This is an advanced course in the Shielded Metal Arc Welding process which students will devote time to developing skills in all out of position welds on plate and pipe. Correct welding techniques and joint preparation for complete joint penetration necessary to pass pre-employment weld tests will be covered. The theory and application of AWS welding symbols to blueprints and lab assignments will be emphasized. All lab assignments will be evaluated according to AWS D1.1 standards. 2 lecture hours, 4 laboratory hours.

**WELD 106 Welding Certification Review** **3 hrs (Sem II)**

Corequisite: WELD 104 and WELD 105. This course focuses on preparing the student to take welding certification tests, which will be required by most fabrication shops and manufacturers. The student will be instructed in the preparation of test coupons used in certifications in accordance with the American Welding Society D1.1 Structural Steel Welding Code. A review of 6010 and 7018 filler metals used in a majority of SMAW certifications will be extensively covered. 2 lecture hours, 4 laboratory hours.

**WELD 160 General Welding** **2 hrs (Sem I, II)**

Conventional techniques in oxy-acetylene and stick-electrode will be covered. Extensive practice will be given for the successful completion of the various required welds. 1 lecture hour, 3 laboratory hours.

**WELD 165 Advanced General Welding** **2 hrs (Sem I, II)**

Prerequisite: One year of high school welding or WELD 160 is recommended. This is an advanced study of oxy-acetylene, stick-electrode, Mig, and Tig welding techniques based on (AWS) standards as used in industry. 1 lecture hour, 3 laboratory hours.

**WELD 212 Welding Inspection****5 hrs (Sem I)**

Prerequisite: WELD 106. Analysis and exploration of solutions to weld defects in the SMAW (Shielded Metal Arc Welding), GMAW (Gas Metal Arc Welding), and GTAW (Gas Tungsten Arc Welding) arc welding processes will be covered extensively. Visual inspection and application of destructive weld testing procedures performed in the laboratory to qualify welders according to AWS (American Welding Society) D1.1, D1.3. This course contains much of the information necessary to complete the AWS certified welding inspectors test. 2 lecture hours, 8 laboratory hours.

**WELD 215 Weld Fabrication I****5 hrs (Sem I)**

Prerequisite: WELD 106. A structural steel fabrication class, dealing with welding process selection, joint design, cost analysis and design of welded products. Students will engage various construction projects including fabricate piping systems. Concurrently, students will gain experience in automatic shape cutting, press brake operation, layout, measurement and improvement of welded assemblies. Customer repairs with cost analysis will also be covered. 2 lecture hours, 8 laboratory hours.

**WELD 225 Weld Fabrication II****5 hrs (Sem II)**

Prerequisite: WELD 215. Theory and application of non-traditional cutting and welding processes found in today's manufacturing environment. Laboratory work will include: resistance welding, plasma arc cutting and welding, stud welding, automated shape cutting, water-jet and laser technology. Cost analysis of base materials and process selection will also be covered. 2 lecture hours, 8 laboratory hours.



# University Directory

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Brenda Thompson, Director of University Events

Andrea Tschertter, Director of Marketing Services

Heidi Whitehead, Associate Director, Admissions

#### • Office of Foundation/Alumni

Bumper Hostetler, President, VU Foundation

Donna Clinkenbeard, Grant Coordinator

Jennifer Gilmore, Director, Alumni Programs

Carroll Hamner, Chairman, VU Society

Beverly Osborn, Alumni Assistant Director

Phillip M. Summers, President Emeritus and Project Coordinator, Red Skelton Museum and  
Performing Arts Center

Gazella Summitt, Foundation Relations Assistant

**Office of the Provost and Vice President of Instructional Services/Dean of Faculty**

Ronald M. Davis, Provost and Vice President of Instructional Services/Dean of Faculty

Daniel L. Burgei, Dean, Division of Business and Public Service

Arthur H. Haase, Dean, Division of Technology and Aviation Technology Center

Peter Iyere, Dean, Division of Science and Mathematics

Alan Johnson, Assistant Vice President, Dean, Vincennes University Jasper Campus

Don Kaufman, Dean, Continuing Studies

Eric Margerum, Dean, Social Sciences and Performing Arts Division

Charles W. Reinhart, Dean, Division of Humanities

Jana Vieck, Interim Dean, Division of Health Sciences and Human Performance

Sandy Siewers, Administrative Assistant, Provost and Vice President of Instructional Services/  
Dean of Faculty

Robert Slayton, Dean, Curtis G. Shake Learning Resources Center

• **Office of the Assistant Provost for Curriculum and Instruction**

Carolyn K. Jones, Assistant Provost for Curriculum and Instruction

Sherril Carter, Administrative Assistant to the Assistant Provost for Curriculum and Instruction

Hope Clausman, Director, Summer Bridge Program

Michael E. Gress, Coordinator, General Education

Thomas Konkle, Director of Advisement Center

Joan Puckett, Coordinator, AQIP/HLC

Laurel Smith, Director, Honors Program

• **Office of the Assistant Provost for Student Affairs**

Lynn White, Assistant Provost for Student Affairs

Jennifer Andrews, Counselor

Kim Bauer, Nurse, Student Health Center

Cindy Beals, Director of Student Activities

Julie Beaman, Administrative Assistant to the Assistant Provost for Student Affairs

Lisa Bishop, Director of Counseling

Dawn Brewer, Director of Residential Life

Ron Campbell, Director of Catholic Campus Ministries

Rick Coleman, Director of Career and Placement

Brian Cook, Chaplain/Director of United Campus Christian Fellowship

Cheryl Cunningham, Residence Hall Coordinator, Vanderburgh/Harrison Halls

Robyn Draeger, Director of COPE Student Support Services

Mark Ferguson, Associate Dean of Students and Coordinator of Judicial Affairs

James Jones, Chief of University Police

Patricia Jost, Director of Housing

Mark Kaser, Program Director, Indiana Teen Institute

Lynn Linkon-McCormick, Coordinator, PASS Program, Office of Disability Services

Rebecca Little, Assistant Registrar and Veterans Certification Official

John Livers, Dean of Students

Henry Lopez, Residence Hall Coordinator, Vigo/Godare Halls

Regina McCord-Fithian, Student Development Coordinator

Tina Miller, Interim Director of Athletics

Peggy Milligan, Coordinator of Student Health Services

Brad Musgrave, Director of Upward Bound

Jane Nowaskie, Counselor

Perry Pruitt, Residence Hall Coordinator, Clark/Morris Halls

Cynthia Ragle, Director of Educational Talent Search and Project Aspiree

Scott Shipman, CCF Campus Minister

Julianne Stewart, Project Director, Indiana Teen Institute

Charles Surrent, Student Development Coordinator

Paula Tichenor, Assistant Director of Upward Bound

Terri Vieck, Nurse, Student Health Office

Corinna M. Vonderwell, Coordinator of the Twenty-First Century Scholars Program

Donna Jo Weaver, Registrar

Dan Whitmer, Director of Multicultural and International Student Affairs

Dan Winkler, Director, Sodexo Campus Services



- **Office of Institutional Research**

Roberta Rodriguez Thomas, Director of Institutional Research

Kimela Meeks, Data Analyst

Everett T. Wood, Director of Assessment

**Office of the Vice President of Financial Services and Government Relations**

Phillip S. Rath, Vice President for Financial Services and Government Relations

Tim Eaton, Director of Business Services and Budget

Troy Harmon, Director of Print Media Services

Diana L. Hatton, Administrative Assistant, Vice President for Financial Services and Government Relations

Lora Hostetler, Bursar

Ron Kotter, Bookstore Manager

James W. Minderman, Director of Physical Plant

Dan Martens, Director of Procurement

Lorethea Potts-Rusk, Director of Human Resources and Affirmative Action Officer

Carmin Schnarr, Chief Information Officer

Andrew Shepard-Smith, Grant Specialist

Linda L. Waldroup, Associate Vice President for Financial Services and Controller

Stanley J. Werne, Director of Financial Aid

**Office of the Vice President for Workforce Development and Community Services**

David A. Tucker, Vice President for Workforce Development/Community Services

Pam Anderson, Director, Indiana Military Programs

Patricia Bell, Coordinator for Central Indiana Business and Industry Training

Scott Brown, Deputy Director, Business and Workforce Assistance

Patty Dreiman, Director of Volunteer Services

Ann Gardner, Director, Veterans Upward Bound

Sheila Hess, Director of Workforce Development Services, Region 8

Marcia Hitchcock, MIS Manager, Region 8

Heather Marchino, Director, Project EXCEL and Project LINK

Brian Rawlins, Fiscal Manager, Region 8

Mike Richards, Coordinator for Southern Indiana Business and Industry Training

Laura H. Smith, Assistant Vice President for Workforce Development/Community Services, Executive Director of Generations

Mayanne Turner, Interim Director for Tractor Trailer Driver Training/CDL Services

Robin Winkler, Nutrition Director, Generations

Brent Woolwine, Director, Adult Basic Education, Business & Workforce Assistance

**2008-09 FACULTY**

(The year of appointment is listed in parenthesis after each name.)

***Ronald M. Davis (2005), Provost and Vice President of Instructional Services/Dean of Faculty:***

B.S., Albright College, 1966; M.A., University of Maryland, 1969; Ph.D., University of Maryland, 1980.

***Richard E. Helton (2004), President:***

B.A., Hanover College, 1968; M.S., Indiana University, 1973; Ed.S., Indiana University, 1982; Ph.D., Indiana State University, 1991.

***Phillip S. Rath (1983), Vice President for Financial Services and Government Relations:***

A.S., Vincennes University, 1976; B.S., Indiana University, 1978; M.B.A., Ball State University, 1990.

***David Tucker (2006), Vice President for Workforce Development and Community Services:***

B.A., DePauw University, 1985; J.D., Indiana University, 1989.

**Instructional Services**

***Carolyn K. Jones (1986), Assistant Provost for Curriculum and Instruction:***

B.S., Oakland City College, 1985; M.A., University of Evansville, 1986; Ph.D., Indiana State University, 1993.

***Don Kaufman (2000), Dean, Continuing Studies:***

B.S., Indiana State University, 1993; M.S., Indiana State University, 1994.

**Roberta Rodriguez Thomas (2005), Director of Institutional Research:**

B.A., University of South Florida, 1970; M.A., University of South Florida, 1972; Ed.D., University of Florida, 1985.

**Lynn White (2000) Assistant Provost for Student Services:**

B.S., Indiana State University, 1979; M.A., Indiana State University, 1981.

**Learning Resources Center**

**Robert A. Slayton (1972), Dean of Learning Resources Center (Level IV):**

A.A., El Camino College, 1965; B.S., Indiana State University, 1967; M.S., Indiana State University, 1969; M.L.S., Indiana State University, 1972.

**Thomas E. Cronk (1994), Assessment Center Supervisor (Level II):**

A.S., Olney Central College, 1971; A.S., Vincennes University, 1975; B.S., Indiana State University, 1977.

**Michaela (Coffey) Ewald (1988), Librarian (Level IV):**

B.S., Southeast Missouri State University, 1976; M.A., University of Missouri, 1988.

**Joseph H. Helms (1982), Librarian (Level IV):**

A.S., Jackson Community College, 1970; B.S., Northern Michigan University, 1972; M.S., Butler University, 1977; M.L.S., Indiana State University, 1981.

**Richard L. King (1988), Librarian (Level IV):**

B.A., Indiana University, 1980; M.L.S., Indiana University, 1988.

**David M. Peter (2006), Director, Center for Teaching and Learning (Level II):**

B.A., University of Oklahoma, 1982; M.Ed., Texas A & M University, 2002.

**Bonnie B. Riggins (1986), Librarian (Level IV):**

B.S., Indiana University, 1973; M.L.S., Indiana University, 1974.

**Deborah Stanczak (2000), Instructional Technologist (Level I):**

A.S., Vincennes University, 2000; B.S., Oakland City University, 2005.

**Justin Stanczak (2001), WEB/Pipeline Manager (Level II):**

**Jay Wolf (1976), Director of Media Services (Level IV):**

A.S., Vincennes University, 1966; Technical Certificate, National Camera, 1980.

**Aviation Technology Center, Indianapolis**

**Edwin J. Briggeman (2001), Instructor in Aviation Maintenance Technology:**

A.S., Vincennes University, 1987.

**Frederick H. Evans IV (1994), Assistant Professor of Aviation Maintenance Technology:**

A.S., Purdue University, 1990; B.S., Purdue University, 1991.

**Michael D. Gehrlich (1993), Director of Aviation Technology, Program Coordinator of Aviation Maintenance, Associate Professor of Aviation Maintenance Technology:**

A.S., Vincennes University, 1989; A.S., Purdue University, 1991; B.S., Purdue University, 1991.

**John M. Griffin (1987), Assistant Professor of Aviation Maintenance Technology:**

A.A.S., Indian Hills Community College, 1980; B.S.A.S.T., Thomas A. Edison State College, 2002.

**Daniel L. Gunder (1988), Instructor in Aviation Maintenance Technology:**

A.S., Vincennes University, 1981.

**John A. Wolf (1991), Associate Professor of Aviation Maintenance Technology:**

A.S., Vincennes University, 1975.

**Jasper Campus**

**Full-time Faculty**

**Ann Boeglin (2007), Assistant Professor of Nursing:**

B.S., University of Evansville, 1979.

**Angela Bright (2008), Assistant Professor of Education:**

A.S., Vincennes University, 1995; B.S., Purdue University, 1998; M.S., Indiana State University, 2003.

**Sheila Collett (1997), Department Chair of Business and Technology, Associate Professor of Computer Technology:**

A.S., Vincennes University, 1984; B.S., Indiana University, 1971; M.B.A., Ball State University, 1998.

**Julie Eckert (2006), Assistant Professor of Nursing**

BSN, University of Southern Indiana, 1991.

**Lou Ann Gilbert (1981), Director of Admissions and Marketing:**

B.A., University of Evansville, 1976; M.S., Indiana University, 1980.

**Carol Hanneman, English and Academic Support Center:**

B.S., University of Missouri, 1975.

**Kelly Hartwick (2008), Assistant Professor of Nursing:**

B.S., Indiana University Southeast, 1998.

**Alice Hildenbrand (2002), Assistant Professor of Nursing:**

A.S., Vincennes University, 1996; B.S., University of Southern Indiana, 2000; MSN, University of Southern Indiana, 2006.

**Alan Johnson (2006), Dean, Vincennes University Jasper Campus:**

B.S., Northern Illinois University, 1967; M.S., Illinois State University, 1973; Ed.D., Illinois State University, 1976.

**Charles E. Jones (1993), Professor of Mathematics:**

B.S., Oakland City College, 1978; M.S., Indiana University, 1986.

**Roger Kippenbrock (1992), Fiscal Manager:**

A.S., Vincennes University, 1987; B.S., University of Southern Indiana, 1988.

**Demetrio Maglalang (1978), Professor of Humanities:**

A.B., University of Santo Tomas, 1956; M.A., University of San Carlos, 1958.

**Flor Maglalang (1997), Associate Professor of Business:**

B.S., University of San Carlos, 1959, M.B.A., Indiana University, 1961; M.A., Indiana University, 1964.

**James H. McFaul (2000), Director of Continuing Education:**

A.A., Jefferson Community College, 1974; B.A., Buffalo State College, 1976; M.A., Ball State University, 1987.

**Jeanne Melchior (1985), Professor of English:**

B.A., Catherine Spalding College, 1968; M.S., University of Kentucky, 1978.

**Karen Moesner (1992), Assistant Professor of Science:**

B.S., Indiana State University, 1975; B.S., University of Southern Indiana, 1988; M.S., Indiana State University, 1997.

**Joan I. Reckelhoff (1975), Professor of Business:**

B.S., Indiana University, 1972; M.S., Indiana State University, 1975.

**Debbie Recker (1994), Library Director**

A.S., Vincennes University, 1975; B.S., Indiana State University, 1976; M.S., Indiana State University, 1990.

**Robert L. Reeves (1990), Department Chair of Business and Technology, Professor of Drafting Technology:**

B.S., Western Kentucky University, 1978; M.S., Western Kentucky University, 1997.

**Sharon L. Reeves (1981), Professor of Psychology:**

A.B., Western Kentucky University, 1979; M.S., University of Evansville, 1986.

**Angela Richart (2008), Assistant Professor of English:**

B.S., Indiana University, 1991; M.S., Indiana Wesleyan University, 2001.

**Nicholas Servis (2007), Assistant Professor of Science:**

B.S., University of South Carolina, 1989; M.S., University of Wyoming, 1993.

**Janet Stenftenagel (1990), Associate Professor of English:**

A.A., Southern Illinois University, 1973; B.A., Southern Illinois University, 1973; M.A., University of Southern Indiana, 1999.

**Amy Wonder (2005), Assistant Professor of Nursing:**

BSN, Indiana State University, 1993; M.S., Ball State University, 2003.

#### **Credentialed Part-time and Adjunct Faculty**

*Sandy Fritz*

*Jack Maxie*

*Theresa Singer*

#### **Division of Business and Public Service**

##### **Full-time Faculty**

**Mary M. Bowen (1982), Professor of Information Technology:**

B.S., Indiana State University, 1981; M.S., Indiana State University, 1985.

**Susan Brocksmith (1990), Department Chair of Business and Management, Program Chair of Agribusiness, Professor of Business Management:**

B.S., Purdue University, 1983; M.B.A., Ball State University, 1987.

**Daniel L. Burgei (1978), Dean, Division of Business and Public Service; Professor of Law Enforcement:**

B.A., Indiana University, 1972; M.P.A., Indiana University, 1980; Microcomputer Specialist Certificate, 2002.

**Jay D. Burks (1981), Professor of Broadcast Production and Sales:**

B.S., Indiana State University, 1977; M.S., Indiana State University, 1981.

- Louis J. Caprino, Jr. (2007), Associate Professor of Homeland Security and Public Safety:**  
B.A., SUNY at Oneonta State, 1975; M.A., SUNY at Stonybrook, 1977.
- Kathy L. Evans (1985), Department Chair of Information Technology, Department Chair of Cosmetology, Professor of Information Technology:**  
B.S., Indiana State University, 1978; M.S., Indiana State University, 1984.
- Aric Steven Frazier (1986), Program Chair of Law Enforcement, Professor of Law Enforcement:**  
A.S., Vincennes University, 1977; B.S., University of Evansville, 1980; M.S., University of Evansville, 1981.
- Pamela Garrison (1980), Instructor of Cosmetology:**  
A.S., Vincennes University, 1984.
- Samuel C. Hensley (2004), Program Chair for EMS, EMT-P, Primary Instructor:**
- John R. Hitchcock (1983), Professor of Broadcast Production and Sales:**  
B.A., Eastern Kentucky University, 1973; M.S., Indiana State University, 1986; Ed.S., Indiana State University, 1992.
- Mary L. Hollars (1992), Professor of Accounting:**  
B.S., University of Southern Indiana, 1990; M.B.A., University of Southern Indiana, 1992.
- Melissa Hollis (2006), Instructor of Horticulture:**  
A.S., Vincennes University, 2002; B.S., Western Kentucky University, 2005.
- Jeff Hume (2006), Instructor of Hospitality:**  
A.S., Vincennes University, 1988.
- Patrick D. Jennings (1975), Program Chair of Conservation Law Enforcement, Department Chair of Law and Safety, Professor of Law Enforcement:**  
B.S., Indiana State University, 1974; M.S., Indiana State University, 1979.
- Dawn Judy (2000), Associate Professor of Information Technology:**  
A.S., Vincennes University, 1986; A.S., Vincennes University, 1994; B.S., Indiana State University, 1997; M.A., Ball State University, 2005.
- Carol C. Keusch (1989), Associate Professor of Hospitality:**  
A.S., Vincennes University, 1992.
- Ron Kilps (1993), Assistant Professor in Law Enforcement:**  
A.S., Vincennes University, 1977.
- Edward J. Kirk (1984), Professor of Business Management:**  
B.S., Lewis University, 1966; M.S., Indiana State University, 1972; Ed.S., Indiana State University, 1977.
- Sebastian F. Kiteka (1989), Professor of Computer Programming:**  
B.S., Indiana University, 1978; M.S., Indiana University, 1980.
- Lori Marchino (1989), Professor of Hospitality:**  
B.S., Purdue University, 1984; M.S., Indiana State University, 1987.
- Anna L. Miller (1985), Professor of Law Enforcement:**  
B.A., Indiana University, 1980; J.D., Indiana University, 1983.
- Lisa A. Nash (2008), Assistant Professor of Accounting:**  
B.B.A., Marshall University, 1990.
- M. James Nead (1985), Professor of Business Management:**  
B.A., Eastern Illinois University, 1980; M.S., Indiana State University, 1981; Ed.D., Indiana University, 1985.
- Al Rerko (1992), General Manager of WVUT-TV, Associate Professor of Broadcast Production and Sales:**  
B.S., Bowling Green State University, 1971.
- Phyllis Richardson (1987), Program Chair of Hospitality, Associate Professor of Hospitality:**  
A.S., Vincennes University, 1991; B.S., Oakland City University, 1993.
- Daniel S. Riggs (2007), Instructor of Information Technology:**  
A.S., Vincennes University, 2002; B.S., Indiana State University, 2004.
- Louis A. Scarpellini (1999), Program Chair of Fire Science and Safety Technology, Associate Professor of Fire Science and Safety Technology:**  
B.S., Kent State University, 1970; M.A., Bowling Green State University, 1973; D.A., Lehigh University, 1979.
- Phillip L. Smith (1989), General Manager of WVUB, Instructor in Broadcast Production and Sales:**  
A.S., Vincennes University, 1971; B.S., Indiana State University, 2008.
- Gary Sparks (1989), Program Chair of Bowling, Assistant Professor of Physical Education, Men's and Women's Bowling Coach:**  
A.S., Vincennes University, 1979.

***Dorothy Stanfill (1990), Professor of Law Enforcement:***

A.S., Vincennes University, 1974; B.S., Indiana State University, 1984; M.A., Indiana State University, 1990.

***Larry W. Stearns (1982), Program Chair of Paralegal, Professor of Paralegal:***

A.A., Vincennes University, 1976; B.S., Indiana State University, 1978; J.D., Indiana University, 1981.

***Harold E. Tepoch (1987), Professor of Business Management:***

B.A., University of Southern Indiana, 1980; M.P.A., Indiana State University, 1986.

***Frank Randy Walters (1990), Professor of Law Enforcement:***

B.S., Eastern Kentucky University, 1980; M.P.A., Indiana State University, 1995.

***Douglas Young (1980 and 1988), Department Chair of Broadcasting Technology, Associate Professor of Broadcast Production and Sales:***

A.A.S., Vincennes University, 1972; B.S., Ball State University, 1976; M.S., Indiana State University, 1995.

***Kathryn E. Young (1987), Professor of Broadcast Production and Sales:***

B.S., Murray State University, 1978; M.S., Indiana University, 1994.

***Thomas A. Young (1985), Professor of Broadcast Production and Sales:***

B.S., Murray State University, 1978; M.S., Indiana University, 1994.

***Liugen Zhu (2002), Associate Professor of Information Technology:***

B.S., Nanjing Agricultural University, China, 1985; M.S., University of Illinois at Urbana-Champaign, 1997; Ph.D., University of Illinois at Urbana-Champaign, 2001.

**Credentialed Part-time and Adjunct Faculty**

*James Buckels*

*Adam Craig Groupe*

*Tom Lahay*

*Michael A. Carter*

*David Halter*

*John Streeter*

*Laura DeBrock*

*Brady K. Helms*

*Michael Updike*

*David A. Deem*

*S. Forbey Keirsten*

*Ed Yochum*

*Richard S. Dillon*

*Sandra Faye Kidwell*

*Traci French*

*Edward G. King*

**Division of Health Sciences and Human Performance**

**Full-time Faculty**

***Ronald K. H. Albers (1980), Professor of Physical Education, Men's Tennis Coach, Assistant Director of Intramural Sports***

B.S., Eastern Kentucky University, 1979; M.S., Eastern Kentucky University, 1980.

***Jill R. Alzman (2007), Assistant Professor of A.D. Nursing:***

A.S.N., Vincennes University, 1992; B.S.N., University of Southern Indiana, 1998; M.S.N., University of Southern Indiana, 2007.

***Sharon A. Arnold (2008), Assistant Professor of Practical Nursing:***

A.S., Vincennes University, 1983; B.S., Oakland City University, 2000.

***Sara K. Baumgart (2008), Assistant Professor of Practical Nursing:***

B.S., Indiana State University, 1991; A.S.N., Charles County Community College, 2000; B.S.N. and M.S.N., University of Phoenix, 2007.

***Misty D. Bohnert (2007), Assistant Professor of Physical Education:***

B.S., Indiana University, 2001; M.S., Indiana University, 2006.

***Micah J. Bowman (2002), Associate Professor of A.D. Nursing:***

A.S., Vincennes University, 1995; B.S.N., University of Southern Indiana, 1997; M.S.N., Indiana State University, 2001.

***Jo Anne Brocksmith (1988), Assistant Department Chair of A.D. Nursing, Professor of A.D. Nursing:***

A.S., Purdue University, 1979; B.S.N., University of Evansville, 1981; M.S.N., Indiana State University, 1991.

***John P. Cody (2005), Department Chair of Health Care Management, Associate Professor of Health Care Management:***

B.S., Southern Illinois University, 1987; M.B.A., University of Minnesota, 1993; MPH, University of Minnesota, 1997.

***Robert J. Cullen (1990), Department Chair of Athletic Training, Associate Professor of Physical Education, Athletic Trainer:***

A.S., Vincennes University, 1987; B.S., Indiana State University, 1989; M.S., Indiana State University, 1994.

***Jonathon E. DeHart (2006), Department Chair of Funeral Service Education, Assistant Professor of Funeral Service Education:***

A.S., Vincennes University, 1994; B.S., Indiana Wesleyan, 2002.

- Pamela A. Gardner (1989), Interim Department Chair of Nursing, Professor of A.D. Nursing:**  
A.S., Vincennes University, 1984; B.S.N., University of Evansville, 1987; M.S.N., Indiana University, 1996.
- Mark F. Goodrich (1986), Professor of Physical Education, Athletic Training, Professor of Physical Therapist Assistant:**  
A.S., Vincennes University, 1982; B.S., Indiana State University, 1985; M.S., Indiana State University, 1988; B.S., Indiana University, 1992.
- Natalie P. Graves (2003), Department Chair of Physical Therapist Assistant, Assistant Professor of Physical Therapist Assistant:**  
B.S., University of Evansville, 1987.
- Mistene M. Halter (2002), Associate Professor in A.D. Nursing:**  
A.S., Vincennes University, 1990; B.S.N., Purdue University, 1992; M.S.N., Indiana University, 1995.
- Jayson E. Holmes (1979), Professor of Physical Education:**  
A.A. Sheridan College, 1975; B.S., Rocky Mountain College, 1977; M.S., Indiana University, 1981.
- Roy D. Inglis (1983), Associate Director of Human Performance Facilities, Assistant Professor of Physical Education:**  
B.S., Southern Illinois University, 1979.
- Jennifer Jones (1980), Professor of Physical Education:**  
B.A., Purdue University, 1972; M.S., Purdue University, 1977.
- Chris A. Keegan (1991), Department Chair of Surgical Technology, Professor of Surgical Technology and Surgical Assisting:**  
C.S.T., Evansville-Vanderburgh School of Health Occupations, 1974; B.S., University of Southern Indiana, 1992; B.A., University of Southern Indiana, 1992; M.S., University of Southern Indiana, 1996.
- Christina M. Lafferty (2004), Assistant Professor of A.D. Nursing:**  
A.S., Vincennes University, 1986; B.S.N., Indiana Wesleyan University, 1997; M.S.N., University of Southern Indiana, 2004.
- Rene' M. LaMontagna (1990), Professor of Physical Education:**  
B.S., Northern Illinois University, 1988; M.S.Ed., Northern Illinois University, 1991.
- Jennifer L. Lee (2006), Assistant Professor of A.D. Nursing:**  
A.S.N., Vincennes University, 1987; B.S.N., Indiana Wesleyan University, 2004; M.S.N./Ed., University of Phoenix, 2006.
- Cynthia J. Litherland (1988), Professor of A.D. Nursing:**  
B.S.N., Indiana State University, 1980; M.S.N., Indiana State University, 1991.
- Mary K. Lutterbach (1978), Professor of A.D. Nursing:**  
B.S., Edgecliff College, 1964; M.A., University of Evansville, 1972; A.S., Vincennes University, 1977; B.S.N., University of Evansville, 1982; M.S.N., Indiana State University, 1990.
- Harry L. Meeks (1991), Assistant Professor of Physical Education, Head Women's Basketball Coach:**  
B.S., James Madison University, 1973; M.S., Virginia Polytechnical Institute and State University, 1978.
- Tina R. Miller (1984), Interim Athletic Director, Professor of Physical Education, Women's Volleyball Coach:**  
B.A., Marian College, 1980; M.A., Ball State University, 1983.
- Zondra U. Myers (1983), Professor of A.D. Nursing:**  
A.S., Vincennes University, 1975; B.S.N., University of Evansville, 1981; M.S.N., Indiana State University, 1989.
- Freda R. Neal (2008), Professor of A.D. Nursing:**  
A.S., Vincennes University, 1981; B.S.N., Southern Illinois University, 1991; M.S.N., University of Evansville, 1997.
- Sharon D. O'Neill (1989), Department Chair of Health Information Management, Professor of Health Information Management:**  
B.S., Indiana University, 1976; M.S., University of Evansville, 1995.
- R. William Rump (1979), Department Chair of Physical Education, Director of Intramural-Recreational Sports, Professor of Physical Education:**  
B.S., Indiana State University, 1977; M.S., Indiana State University, 1979.
- Betty J. Ryan (2002), Assistant Department Chair of Practical Nursing, Associate Professor of Practical Nursing:**  
A.S., Vincennes University, 1976; B.S.N., University of Evansville, 1991; M.S.N., University of Evansville, 1997.
- Scott E. Seifers (2003), Instructor of Funeral Service Education:**  
A.S., Vincennes University, 1998; B.S., Oakland City University, 2004.
- Kelly M. Spore (2008), Department Chair of Massage Therapy, Assistant Professor of Massage Therapy:**  
B.B., Eastern Michigan University, 1992; B.S., National College of Chiropractic, 1996; D.C., National College of Chiropractic, 1998; Massage Therapist Certification, Southwest Institute of Healing Arts, 2000.

**Janet L. Thomas (2000), Assistant Professor of Health Information Management:**

A.S., Vincennes University, 1989; B.S., Vincennes University, 2008.

**Jane L. Tiek (1988), Professor of A.D. Nursing:**

B.S.N., Indiana University, 1978; M.S.N., Indiana State University, 1991.

**Jana L. Vieck (1987), Interim Dean, Division of Health Sciences and Human Performance, Professor of A.D. Nursing:**

B.S.N., Millikin University, 1983; M.S.N., University of Evansville, 1989.

#### **Credentialed Part-time and Adjunct Faculty**

**Quentin Ave**

**Alanna G. Charlton**

**Kimberly K. Elliott**

**Kathryn A. England**

**Ann M. Held**

**Carol A. Hippensteel**

**Kimberly S. Lester**

**Steven G. Madden**

**Tonya L. Melton**

**Deborah J. Pruitt**

**Karen S. Seessengood**

**Marsha L. Shepherd**

**Debra R. Snow**

**Teresa E. Stephens**

**Anna Telligman**

**Tamela L. Twitty**

**M. D. Scott Steinbrecher**

**John P. Walters**

#### **Division of Humanities**

##### **Full-time Faculty**

**Karen Ball (1989), Professor of English:**

B.A., Eastern Kentucky University, 1987; M.A., Eastern Kentucky University, 1989.

**Stephen Black (1989), Interim Department Chair of Art and Design, Professor of Art and Design:**

B.F.A., Colorado State University, 1985; M.A., University of Iowa, 1988; M.F.A., University of Iowa, 1989.

**Beverly K. Burch (1981), Professor of English and Study Skills:**

A.S., Vincennes University, 1977; B.S., Indiana State University, 1980; M.S., Indiana State University, 1985.

**Elaine Burklow (2002), Assistant Professor of English:**

B.A., Southern Illinois University, 1995; M.A., Southern Illinois University, 1997.

**Kendra Crede (2008), Assistant Professor of English:**

B.A., Illinois Wesleyan University, 2001; M.A., Western Illinois University, 2005.

**H. Dianne Day (1980), Professor of Reading:**

A.S., Broward Community College, 1973; B.S., Indiana University, 1975; M.S., Indiana University, 1976.

**Steven Gregory (1990), Associate Professor of Spanish:**

B.A., Olivet Nazarene University, 1986; M.A., Purdue University, 1990.

**Michael E. Gress (1980), Department Chair of English; Professor of English and Philosophy; Coordinator, General Education:**

B.A., Eastern Illinois University, 1977; M.A., Eastern Illinois University, 1980; M.A., Indiana State University, 1994.

**Bernard Hagedorn (1988), Professor of Art:**

B.F.A., Indiana University-Herron, 1981; M.F.A., Rutgers University/Mason Cross School of the Arts, 1983.

**LeRoy E. Hall (1991), Department Chair of Modern Foreign Languages; Professor of Spanish:**

A.A., Vincennes University, 1989; B.A., Indiana State University, 1991; M.A., Indiana State University, 1996.

**Deborah K. Hutchinson-Hagedorn (1987), Professor of Art:**

B.F.A., Indiana University Herron School of Art, 1981; M.F.A., The Maryland Institute College of Art, 1983.

**Amy DeLap Jendrzejewski (1977), Professor of Art:**

B.F.A., Washington University, 1973; M.F.A., University of Michigan, 1975.

**Andrew J. Jendrzejewski (1978), Professor of Art:**

B.F.A., Temple University, 1968; M.F.A., Washington University, 1973.

**Jeffrey M. Johnson (1979), Professor of English:**

B.A., Western Illinois University, 1973; M.A., Western Illinois University, 1976.

**N. Jane Kavanaugh (1978), Chair of Developmental Studies Program, Professor of Study Skills:**

B.A., St. Olaf College, 1969; M.F.A., California Institute of Arts, 1972; M.A., College of St. Thomas, 1977.

**Lillian Klipsch (1989), Professor of English:**

B.S., University of Southern Indiana, 1975; M.S., Indiana State University, 1984.

**Jamie Lane (2008), Assistant Professor of Reading:**

B.S., University of Southern Indiana, 1999; M.S., Indiana University, 2005.

- Susan J. Laue (1990), Director of STEP, Professor of Study Skills:**  
B.A., Carthage College, 1975; M.Ed., Indiana State University, 1982.
- Lou Ann Lindsey (1983), Department Chair of Family and Consumer Sciences, Professor of Family and Consumer Sciences:**  
A.S., Vincennes University, 1979; B.S., Indiana State University, 1981; M.S., Indiana State University, 1984.
- Ranell Locke (2004), Assistant Professor of STEP:**  
B.S., Eastern Illinois University, 1990; M.S., Indiana Wesleyan University, 1998.
- Lisa Ann Maple (2008), Assistant Professor of English:**  
B.A., Eastern Illinois University, 2001; M.A., Eastern Illinois University, 2008.
- Sue Ellen McClure (1995), Associate Professor of Family and Consumer Sciences:**  
A.S., Vincennes University, 1989; B.S., Indiana State University, 1993; M.S., Indiana State University, 2000.
- Bonnie McIntire (2008), Assistant Professor of American Sign Language:**  
B.A., Indiana University, 2005.
- Jane A. Minderman (2005), Associate Professor of Reading:**  
B.S., Indiana State University, 1979; M.Ed., Indiana State University, 1985.
- Thomas A. Minderman (1984), Professor of Reading:**  
B.S., Indiana University, 1981; M.S., Indiana University, 1990.
- Michael Mullen (1989), Professor of English:**  
B.A., College of St. Francis, 1978; M.A., Northern Illinois University, 1981.
- Rebecca Mullen (1989), Professor of English:**  
B.F.A., Bowling Green State University, 1979; M.A., University of South Carolina, 1981.
- Julianne Myers (1998), Interim Department Chair of Reading, Professor of Reading:**  
B.S., Indiana State University, 1968; M.S., Indiana State University, 1971.
- Karen L. Nead (1979), Professor of English:**  
A.S., Wabash Valley College, 1975; B.A., Eastern Illinois University, 1977; M.A., Eastern Illinois University, 1979; Ph.D., Southern Illinois University-Carbondale, 1994.
- C. Phillip Negley (1989), Department Chair of Graphic Design, Professor of Graphic Design:**  
B.S., Eastern Illinois University, 1974; M.A., Eastern Illinois University, 1998.
- Lori L. Netti (2000), Chair of English as a Second Language, Assistant Professor of English as a Second Language:**  
B.A., Lincoln Christian College, 1989; M.S.Ed. TESOL, Shenandoah University, 2002.
- C. Juenell Owens (1988), Professor of English:**  
B.A., Oakland City College, 1979; M.A., Mankato State University, 1983.
- Joan Puckett (1989), Professor of English:**  
B.A., Indiana State University, 1984; M.A., Indiana State University, 1986.
- Ann Reifel (1991), Department Chair of American Sign Language, Associate Professor of American Sign Language:**  
B.S., Indiana State University, 1977; M.S., Western Maryland College, 1994.
- Charles W. Reinhart (1980), Dean, Division of Humanities; Professor of English:**  
B.A., Indiana University, 1970; Ph.D., Indiana University, 1978.
- Debbie A. Reynolds (1980), Professor of English:**  
B.S., Indiana State University, 1972; M.A., Indiana State University, 1974.
- R. Bradley Rock (1980), Assistant Professor of Graphic Design:**  
B.F.A., University of Illinois, 1972.
- John H. Rogers (1982), Professor of English:**  
B.A., Centre College of Kentucky, 1969; M.A., Indiana University, 1972; Ph.D., Indiana University, 1977.
- Erick Rowe (2007), Assistant Professor of Art:**  
B.A., Purdue University, 1996; M.F.A., Columbia College Chicago, 2002.
- Ellen M. Scanlin (1969), Professor of English:**  
A.B., Marian College, 1967; M.A., Indiana University, 1968.
- Susan E. Schmeling (1969), Professor of English:**  
A.B., Washington University, 1963; M.A., Boston University, 1969.
- Pravin Sevak (2008), Assistant Professor of Art:**  
Diploma in Graphic Design, National Institute of Design, India, 1979; BSc, Gujarat University, Ahmedabad, India, 1973.
- Tyson Sims (2002), Associate Professor of English:**  
B.A., Morehouse College, 1992; M.A., University of Rhode Island, 1995.



**Laurel A. Smith (1985), Professor of English:**

B.A., Manchester College, 1978; M.A., Ball State University, 1983; Ph.D., Ball State University, 1991.

**Robert S. Sweazy (1980), Professor of English:**

B.A., Western Illinois University, 1974; M.A., Western Illinois University, 1976.

**Charlotte Thompson (1981), Professor of English:**

A.S., Vincennes University, 1967; B.S., Indiana State University, 1969; M.S., Indiana State University, 1973.

**Bernard Verkamp (1972), Department Chair of Philosophy, Professor of Philosophy:**

A.B., Saint Meinrad College, 1960; Ph.D., St. Louis University, 1972.

**Alice Whaley (2000), Assistant Professor of Study Skills:**

A.S., Vincennes University, 1961; B.S., St. Mary-of-the-Woods College, 1997; M.S., Indiana State University, 2000.

**Russ Leonard-Whitman (2006), Assistant Professor and Coordinator of Journalism**

B.A., University of Nebraska, 1980; M.S., Michigan Technological University, 1989.

**Wendy Whiting (1992) Associate Professor of American Sign Language:**

B.S., Gallaudet College, 1975; M.S., University of Tennessee, 1978; M.S., Western Maryland College, 1993.

**Ronald Wise (1999), Assistant Professor of Graphic Design:**

A.S., Vincennes University, 1982.

**Ursula Wuthrich-Vare (1999), Assistant Professor of Foreign Languages:**

B.A., Eastern Illinois University, 1986; M.B.A., Eastern Illinois University, 1992.

**Credentialed Part-time and Adjunct Faculty**

*Chad Bebee*

*David Cockerham*

*Chuck Daube*

*Edan deRoziere*

*Melanie Eisenhour*

*Brenda Fillingim*

*Jim Frenchik*

*Phyllis Johnson*

*Diane Jones*

*Penny Kirk*

*LaDonna Lane*

*Jill Larson*

*Amy Leighty*

*Elizabeth Mardis*

*Linda Mosher*

*Laura Nardine*

*Bea Pfaff*

*Rachel Ray*

*Janet Schwall*

*Cathy Smith*

*Sherry Smith*

*Sarah E. Snyder*

*Terri Waddell-Motter*

**Division of Science and Mathematics**

**Full-time Faculty**

**Jay A. Bardole (1966), Department Chair of Chemistry, Professor of Chemistry:**

A.B., Grinnell College, 1963; M.A., DePauw University, 1966.

**Robert N. Bechtel (1983), Professor of Physics and Engineering:**

B.S.M.E., Oregon State University, 1975; M.S., Indiana State University, 1994.

**LeRoy Breimeier (1970), Professor of Chemistry:**

B.A., Dickinson State College, 1968; M.S., Indiana University, 1971.

**Karen F. Buescher (1976), Associate Professor of Chemistry:**

B.S., Purdue University, 1972; M.S., Indiana State University, 1980.

**Sarah Goodwin Carpenter (1986), Department Chair of Mathematics; Professor of Mathematics:**

B.S., University of Illinois, 1972; M.S., University of Illinois, 1973.

**Carolyn J. Case (1979), Professor of Mathematics:**

B.A., Eastern Illinois University, 1977; M.A., Eastern Illinois University, 1979.

**Darrell Clinton (2000), Assistant Professor of Chemistry:**

A.S., Niagara Community College, 1987; B.S., State University of New York at Oswego, 1991; Ph.D., Case Western Reserve University, 1996.

**Curtis Coffman (2005), Assistant Professor of Life Science:**

B.S., Ball State University, 1993; M.S., Ball State University, 1995.

**Andrew S. Corless (2008), Assistant Professor of Life Science:**

A.S., American River College, 2000; B.S., Brigham Young University, 2002; M.S., University of Connecticut, 2008.

**Sonja L. Crawford (1975), Professor of Mathematics:**

B.S., Indiana University, 1969; M.S., Indiana State University, 1974.

**Elain L. Dahl (1983), Department Chair of Physics and Engineering, Professor of Physics and Engineering:**

B.S., Indiana State University, 1976; M.A., Indiana State University, 1980.

**Adam M. Davis (2006), Assistant Professor of Earth Science:**

B.S., University of Maryland, 1993; M.S., George Mason University, 1999.

- John R. DeCoursey (1983), Professor of Mathematics:**  
B.S., Indiana State University, 1973; M.S., Indiana State University, 1976.
- Deborah J. Dodson (1969), Professor of Life Science:**  
A.B., Indiana State University, 1969; M.S.T., University of Illinois, 1972.
- James E. Dodson, Jr. (1969), Professor of Life Science:**  
B.S., Indiana State University, 1967; M.A., Indiana State University, 1969.
- Danielle M. Goodwin (2008), Assistant Professor of Mathematics:**  
B.S., University of Maryland Eastern Shore, 1998; M.S., Rensselaer Polytechnic Institute, 2000;  
Ed.D., University of Massachusetts Lowell, 2007.
- Gary D. Hill (2008), Assistant Professor of Life Science:**  
B.A., University of Evansville, 1973; M.S., Purdue University, 1981; Ed.D., University of Georgia,  
1997.
- Stephanie Holmes (1990), Instructor of Mathematics:**  
A.S., Vincennes University, 1975; B.S., University of Southern Indiana, 1995; M.S., University of  
Southern Indiana, 2005.
- Jeffrey S. Huxley (1970), Professor of Mathematics:**  
B.S., The University of Arizona, 1969; M.S., Indiana State University, 1972.
- Colleen Ikemire (2004), Assistant Professor of Life Science:**  
A.S., Olney Central College, 2000; B.S., Eastern Illinois University, 2002; M.S., Eastern Illinois  
University, 2004.
- Peter A. Iyere (2008), Dean, Science and Mathematics Division:**  
B.S., University of Ibadan/Nigeria, 1980; M.A., Brandeis University, 1989; Ph.D., Brandeis University,  
1991.
- Linda Jones (1965), Professor of Mathematics:**  
A.S., Vincennes University, 1963; B.S., Indiana State University, 1965; M.S., Indiana State University,  
1968.
- David J. Keusch (1967), Professor of Mathematics:**  
A.B., Indiana State University, 1966; M.S., Indiana State University, 1968.
- Michael A. Knoll (1976), Professor of Chemistry:**  
B.S., Rose Polytechnic Institute, 1972; M.S., University of Minnesota, 1975.
- Nancy Mathis (1986 and 2000), Associate Professor of Mathematics:**  
B.S., Ball State University, 1971; M.S., Indiana State University, 1973.
- John E. O'Connell (2008), Assistant Professor of Mathematics:**  
B.S., Purdue University, 2004; M.A., Indiana University, 2006.
- John H. Ostendorf (1967), Professor of Physics and Engineering:**  
A.S., Vincennes University, 1964; B.S., Rose Polytechnic Institute, 1966; M.B.A., Indiana State  
University, 1971; M.S., Indiana State University, 1987.
- Nancy E. Riggs (2008), Assistant Professor of Mathematics:**  
B.S., Roosevelt University, 2003; M.S., Northern Illinois University, 2005.
- Renald A. Simmons (1983), Professor of Mathematics:**  
B.S., Michigan State University, 1979; M.S., Michigan State University, 1983.
- Daniel Vaughn (2007), Assistant Professor of Earth Science:**  
B.S., University of Hawaii, 1992; M.A., University of Illinois, 1999.
- Andrew D. Wagner (1982), Professor of Physics and Engineering:**  
A.S., Vincennes University, 1974; B.S., Rose Hulman Institute of Technology, 1976; B.S., Southern  
Illinois University, 1981; Professional Engineer (Indiana), 1986; M.S.E.E., University of Evansville,  
1990.
- DanaLea J. Woehl (2008), Assistant Professor of Mathematics:**  
B.A., Houghton College, 2004; M.S., South Dakota State University, 2007.

#### **Credentialed Part-time and Adjunct Faculty**

**William Chad Beaman**

**Melody M. Candler-Catt**

**Neal E. Catt**

**Linda Sue Clark**

**Michelle Cummins**

**Catherine Egler**

**Elizabeth Gillespie**

**Susan Grow**

**Amanda R. Haag**

**Sarabeth Klueh**

**Theodore Kroeger**

**Catherine Lundergen**

**Charles Mansfield**

**Richard Miller**

**Clint Nielson**

**Danny L. Ralston**

**Debra M. Ross**

**Cynthia Sue Seber**

**Andrew Smith**

**Gaye Walthall**

**Terri Wise**

## Division of Social Sciences and Performing Arts

### **Full-time Faculty**

***Hope Clausman (1992), Professor of Psychology:***

A.S., Vincennes University, 1979; B.A., Indiana University, 1982; M.P.A., Indiana State University, 1988.

***Miranda Crispin (2004), Assistant Professor:***

B.F.A., Illinois Wesleyan University, 2000; M.M., Arizona State University, 2002.

***Robert T. Evans (1997), Department Chair of Psychology, Sociology, and Social Work; Associate Professor of Sociology and Social Work:***

B.A., University of North Carolina at Charlotte, 1989; M.S.W., University of Kentucky, 1996

***E. Joseph Fabyan (1988), Department Chair of History, Political Science and Economics; Professor of History and Political Science:***

A.A., Vincennes University, 1971, B.A., University of Notre Dame, 1973; M.A., Ball State University, 1976; Ed.D., Ball State University, 1987.

***Pamela P. Garriott (2006), Associate Professor in Education:***

B.S., Indiana State University, 1970; M.S., Indiana State University, 1987; Ph.D., Indiana University, 1991.

***Chris G. Gwaltney (1980), Professor of Speech:***

B.F.A., Stephens College, 1974; M.A.T., Indiana University, 1978.

***Jan A. Henry (1991), Professor of Education, Department Chair of Education:***

B.S., Indiana State University, 1974; M.S., Indiana State University, 1980.

***Michael Howell (1989), Professor of Music:***

B.M., Ball State University, 1987; M.M., Ball State University, 1989.

***Sharon S. Jackson (1987), Associate Professor of Music, Director of Bands:***

B.S., Indiana State University, 1984; M.S., Indiana State University, 1986.

***Gretchen Keller (2008), Assistant Professor of History:***

B.A., Indiana University, 1991; B.A., Indiana State University, 1997; M.A., Indiana State University, 2007.

***Deanne Laskey (1977), Professor of Economics:***

B.A., Eastern Illinois University, 1975; M.A., Eastern Illinois University, 1976.

***Lakshmi Mahapatra (1991), Professor of Economics:***

B.A., Utkal University, 1972; M.A., Utkal University, 1974; M.A., Central Michigan University, 1982.

***Eric Margerum (2006), Dean, Division of Social Sciences and Performing Arts:***

B.A., St. Olaf College, 1981; M.F.A., University of Southern California, 1983.

***Rebecca G. Martin (1983), Professor of Music:***

B.A., University of Kentucky, 1976; M.M., Miami University, 1978; D.M.A., University of Kentucky, 1982.

***Charles R. McMahan (1988), Professor of Speech:***

B.S., Indiana State University, 1966; M.S., Indiana State University, 1970; Ph.D., Indiana University, 1988.

***Scott Mercer (1989), Department Chair of Music, Associate Professor of Music:***

B.S., Indiana State University, 1988; M.M., Indiana University, 1996.

***Dan Miller (1975), Professor of Music:***

A.A., Merritt College, 1967; B.M., San Francisco State College, 1969; M.M., Indiana University, 1974; D.M.A., Michigan State University, 1987.

***Lisa Miller (2008), Assistant Professor of Music:***

A.S., Vincennes University, 1991; B.S., Indiana State University, 1998; M.M., Indiana State University, 2000; M.A.T., Oakland City University, 2003.

***Brenda W. Nantz (1981), Professor of Psychology:***

B.A., Eastern Illinois University, 1980; M.A., Eastern Illinois University, 1981.

***Steven R. Netti (1999), Associate Professor of Speech:***

B.A., Northern Illinois University, 1986; M.A., Northern Illinois University, 1995.

***Cheryl J. Osborne (1987), Professor of Education:***

A.S., Vincennes University, 1977; B.S., Indiana State University, 1980; M.S., Indiana State University, 1985.

***David L. Parman (1986), Associate Professor of Music:***

A.A., Vincennes University, 1987; B.A., Indiana State University, 1988; M.A., Ball State University, 1991.

***C. Stephen Penn (1988), Professor of Education:***

B.S., Olivet Nazarene College, 1978; M.S., Purdue University, 1982.

***Carol L. Phillippe (1990), Associate Professor of Sociology and Social Work:***

A.A., Vincennes University, 1974; A.S., Vincennes University, 1975; B.A., St. Mary of the Woods College, 1980; M.S., Indiana State University, 1989.

***David L. Salmond (1981), Professor of Psychology:***

B.S., Eastern Illinois University, 1972; M.A., Eastern Illinois University, 1978.

***Kristal D. Shick (2001), Assistant Professor in Economics:***

A.S., Olney Central College, 1997; B.A., Eastern Illinois University, 1999; M.S., Eastern Illinois University, 2001.

***Thomas P. Smith (1975), Professor of Psychology:***

B.M.E., Birmingham Southern College, 1973; M.S., Indiana State University, 1975.

***Kathleen Speigner (2009), Theatre Manager/Costumer:***

B.A., Indiana University-Purdue Indianapolis, 1999; M.A., Indiana State University, 2001.

***James J. Spurrier (1977), Department Chair of Speech and Theatre, Professor of Speech, Director of Theatre:***

B.A., University of Michigan, 1968; M.A., University of California at Los Angeles, 1970; Ph.D., Southern Illinois University, 1979.

***Mary J. Trimbo (1972), Professor of Speech:***

B.A., Gustavus Adolphus College, 1969; M.S., Indiana State University, 1972.

***Stephen K. Whitaker (1976), Professor of Speech:***

B.S., Indiana State University, 1970; M.S., Indiana State University, 1975.

***Patricia K. Wilson (1990), Professor of Sociology and Social Work:***

A.S., Vincennes University, 1975; B.S., Indiana State University, 1976; M.S., Indiana State University, 1979; M.S.W., Indiana University, 1986.

**Credentialed Part-time and Adjunct Faculty**

***Kirk Abendroth***

***Marcia Butke***

***Virginia Carrel***

***Maggie Cornyn***

***David Deem***

***A. J. Doffing***

***Jonathan Feavel***

***David Grayson***

***Marsha Heath***

***Emily Heineke***

***Mark Hill***

***Stan Jochum***

***Matt Latta***

***Larry Lehman***

***Kimberly Lester***

***Jeremy Lewis***

***Meenakshi Mahapatra***

***John McClure***

***Lisa Miller***

***Cory MixDorf***

***Isabelle Newlin***

***Kazuha Nakahara***

***Kelley Rogers Niiyama***

***Sharon Odom***

***John Schmeling***

***Sally Schmett***

***Paul B. Schmitt***

***Curtis Scott***

***Vince Sellers***

***Melanie Sermersheim***

***Patricia Vaal***

***DeEtta Welte***

***Heather Youngquist***

**Division of Technology**

**Full-time Faculty**

***Dean K. Ackerman (1975), Professor of Electronics Technology:***

A.A.S., Vincennes University, 1971; B.S., Indiana State University, 1975; M.S., Indiana State University, 1977.

***Timothy R. Bauer (2008), Instructor of Machine Trades Technology:***

A.A.S., Vincennes University, 1993; B.S., Indiana Wesleyan University, 2008.

***William J. Beard (1990), Associate Professor of Machine Trades Technology:***

A.S., Vincennes University, 1984; B.S., Indiana State University, 1995.

***John Douglas Bowman (1984), Associate Professor of Machine Trades Technology:***

A.S., Vincennes University, 1979; A.S., Vincennes University, 1979.

***Norbert Brown (1998), Department Chair of Transportation, Associate Professor of Automotive Technology:***

A.S., Vincennes University, 1993; B.S., Indiana State University, 1995; M.S., Indiana State University, 1997.

***Stanley N. Brown (1976), Professor of Electronics Technology:***

A.A.S., Vincennes University, 1971; B.S., Indiana State University, 1975; M.S., Indiana State University, 1994.

***Ron Bucci (2005), Director of Mine Safety/Training Programs.***

***Michael A. Burch (1980), Department Chair of Electronics Technology, Professor of Electronics Technology:***

A.S., Vincennes University, 1981; A.S., Vincennes University, 1982; B.S., Indiana State University, 1988; M.S., Indiana State University, 1997.

***William L. Clark (1988), Program Coordinator of Surveying Technology, Associate Professor of Surveying Technology:***

A.S., Vincennes University, 1981; Registered Land Surveyor (Indiana), 1990, (Illinois), 1999.

- Rickie A. Conwell (1978), Associate Professor of Machine Trades Technology:**  
A.S., Vincennes University, 1975; B.S., Ball State University, 1977; M.S., Indiana State University, 1984.
- David G. Cook (1987), Associate Professor of Aviation Flight Technology:**  
A.S., Vincennes University, 1983; B.S., Indiana State University, 1986.
- Gregory D. Cruse (1994), Assistant Professor of Diesel and Heavy Equipment Mechanics Technology:**  
A.S., Vincennes University, 1987; B.S., Purdue University, 1993.
- Thomas Danielsen (2008), Instructor of Drafting and Design/CAD Technology:**  
A.A.S., Olney Central College, 1984; A.A.S., Vincennes University, 1986.
- Matt Dewus (2005), Instructor of Machine Trades Technology:**  
A.S., Vincennes University, 1995; B.S., Purdue University, 1997.
- Jeffrey A. Elliott (1977), Professor of Drafting and Design/CAD Technology:**  
A.S., Vincennes University, 1975; B.S., Indiana State University, 1981; M.S., Indiana State University, 1982.
- Jason Fithian (2000), Program Coordinator of Architectural Studies, Instructor in Architectural Studies/CAD Technology:**  
A.S., Vincennes University, 2001; B.S., Purdue University, 1993.
- Ty M. Freed (2000), Program Coordinator of Automotive Technology, Assistant Professor of Automotive Technology:**  
A.S., Vincennes University, 1997; B.S., Indiana State University, 1999; M.S., Indiana State University, 2000.
- Troy Garrett (1996), Department Chair of Manufacturing Technology, Program Coordinator of Machine Trades Technology, Instructor in Machine Trades Technology:**  
A.S., Vincennes University, 1996.
- Jeffrey Alan Gray (2007), Instructor in Computer Integrated Manufacturing (CIM):**  
A.S., Vincennes University, 1998.
- Arthur H. Haase (1975), Dean of Technology Division, Professor of Surveying Technology:**  
B.S., Indiana State University, 1972; M.S., Indiana State University, 1973.
- Timothy J. Hale (1998), Program Coordinator of John Deere Ag Technology, Instructor of John Deere Ag Technology.**
- Dean A. Hall (2000), Instructor in Electronics Technology:**  
A.S., Vincennes University, 1999.
- Randall E. Hamilton (1989), Assistant Professor of Aviation Flight Technology:**  
A.S., Vincennes University, 1980.
- John Hanes, Jr. (1981), Associate Professor of Aviation Flight Technology:**  
A.S., Vincennes University, 1980.
- Mike E. Hartigan (1978), Professor of Construction Technology:**  
A.S., Vincennes University, 1976; B.S., Indiana State University, 1983.
- Michael Hastings (2008), Assistant Professor of Welding Technology:**  
A.S., Oakland City University, 1997; B.S., Oakland City University, 2002.
- Darrell T. Hicklin (2006), Instructor in Computer Integrated Manufacturing (CIM):**  
A.S., Vincennes University, 2004.
- Jeffery J. Hopkins (1991), Instructor in Collision Repair and Refinishing.**
- Michael A. Houtsch (1991), Associate Professor of Architectural Studies/CAD Technology:**  
A.S., Vincennes University, 1977; A.S., Vincennes University, 1989; B.S., Indiana State University, 2006.
- Charles E. Judy (1979), Associate Professor of Aviation Flight Technology:**  
A.A.S., Wabash Valley College, 1975; B.S., Southern Illinois University, 1977.
- Bryan LaFollette (1990), Program Coordinator of Printing Technology, Associate Professor of Printing Technology:**  
B.S., Ball State University, 1989; M.S., Clemson University, 1990.
- K. Brian Lindsey (1990), Department Chair of Land Resources and Planning, Program Coordinator of Construction Technology, Professor of Construction Technology:**  
A.S., Vincennes University, 1978; B.S., Indiana State University, 1995; M.S., Indiana State University, 1998.
- Douglas W. Lucas (1991), Associate Professor of Machine Trades Technology:**  
A.S., Vincennes University, 1985; A.S., Vincennes University, 1986; B.S., Indiana State University, 1995.
- James M. Marsh (2003), Instructor in Automotive Technology:**  
Automotive Technology Certificate, Oakland City College, 1981.

**Brett W. McCandless (1985), Program Coordinator of Computer Integrated Manufacturing Technology, Associate Professor of Computer Integrated Manufacturing Technology:**

A.S., Vincennes University, 1980.

**Bruce Morgan (2006), Instructor in Printing Technology:**

A.A.S., Ivy Tech, 1995.

**Laura Mullinax Swan (2006), Visiting Professor in Architectural Studies/CAD Technology:**

A.A.S., Lincoln Trail College, 1986; B.S., Mississippi State University, 1990.

**Thomas L. Newman (1986), Assistant Professor of Welding Technology.**

**Robert Nora (2005), Department Chair of Technology, Associate Professor of Technology Baccalaureate Degree Program:**

BGS, University of New Hampshire, 1977; MBA, Golden Gate University, 1985; Ph.D., The University of Tennessee-Knoxville, 2001.

**Richard K. Ray (1975), Professor of Construction Technology:**

A.S., Vincennes University, 1973; B.S., Indiana State University, 1979; M.S., Indiana State University, 1982.

**Mark D. Scott (1991), Associate Professor of Machine Trades Technology:**

A.A., Vincennes University, 1981; A.S., Vincennes University, 1986; B.S., Indiana State University, 1995.

**Gary D. Shaw (1982), Program Coordinator of Industrial Drafting Technology, Professor of Industrial Drafting Technology:**

A.A.S., Lincoln Trail College, 1979; A.S., Vincennes University, 1988.

**Larry Sisk (1998), Instructor in Machine Trades Technology.**

**David L. Tyree (1981), Professor of Laser and Electro-Optics and Electronics Technology:**

A.A.S., Howard W. Sams Technical Institute, 1968; A.S., Vincennes University, 1980; B.S., Indiana State University, 1983; M.A., Indiana State University, 1991.

**Paul Vonderwell (2000), Instructor in Electronics Technology:**

A.S., Vincennes University, 1985.

**Jeffrey Scott. Wallace (2000), Assistant Professor in Machine Trades Technology:**

A.S., Wabash Community College, 1986; B.S., Southern Illinois University, 1989; A.S., Vincennes University, 1991.

**Michael W. Wehrman (1999), Instructor in Electronics Technology:**

A.S., Vincennes University, 1993.

**Robert Weiss (1988), Associate Professor of Construction Technology:**

A.S., Vincennes University, 1979; B.S., Indiana State University, 1993.

**Richard Welage (1990), Professor of Construction Technology:**

A.S., Vincennes University, 1982; B.S., Marian College, 1989; M.S., Indiana State University, 1994.

**John S. Will (1990), Associate Professor of Diesel, Truck and Heavy Equipment Technology:**

B.S., South Dakota State University, 1971.

**Donald W. Williams (1986), Professor of Electronics Technology:**

A.S., Tidewater Community College, 1974; B.G.S., Chaminada University of Honolulu, 1983; M.A., Liberty University, 1990.

**Steven D. Williams (1996), Associate Professor of Automotive Technology:**

B.S., Western Kentucky University, 1974.

**Austin Yake (2006), Instructor in Surveying Technology:**

A.S., Vincennes University, 2002.

#### **Credentialed Part-time and Adjunct Faculty**

**Matt Bilskie**

**Kevin Donnar**

## EMERITUS FACULTY AND PROFESSIONAL STAFF

The following members of the faculty and administration have retired after many years of loyal and distinguished service to Vincennes University and are recognized as having emeritus standing.

*Walter R. Abendroth*, Director, Counseling, 1994  
*Gerald J. Altstadt*, Dean, Vincennes University Jasper Campus, 1997  
*Lora F. Altstadt*, Associate Professor, Mathematics, Vincennes University Jasper Campus, 1993  
*Larry Barchett*, Professor, Mathematics, 2006  
*Ellen Bardole*, Associate Professor, Chemistry, 2000  
*Lois J. Barnett*, Librarian, Vincennes University Jasper Campus, 1992  
*Gene R. Bathe*, Associate Professor, Automotive Technology, 1991  
*L. Joe Beach*, Professor, Construction Technology, 1998  
*Robert L. Beeson*, Professor, Life Science, 1996  
*Nancy Begle*, Fiscal Director, Employment & Training Center, 2006  
*Ray Benson*, Programmer, Management Information Center, 1998  
*Linda Bieker*, Director of Continuing Education, Vincennes University Jasper Campus, 2000  
*Lowell W. Blakley*, Professor, Electronics Technology, 2000  
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The VU Alumni Association is dedicated to the development of programs and activities for the alumni, former students and friends. The VU Alumni Association's many programs are tailored to meet the needs of the University in areas where alumni, former students and friends can best contribute to the growth and welfare of the institution.

A few of the VU Alumni Association sponsored events and programs include:

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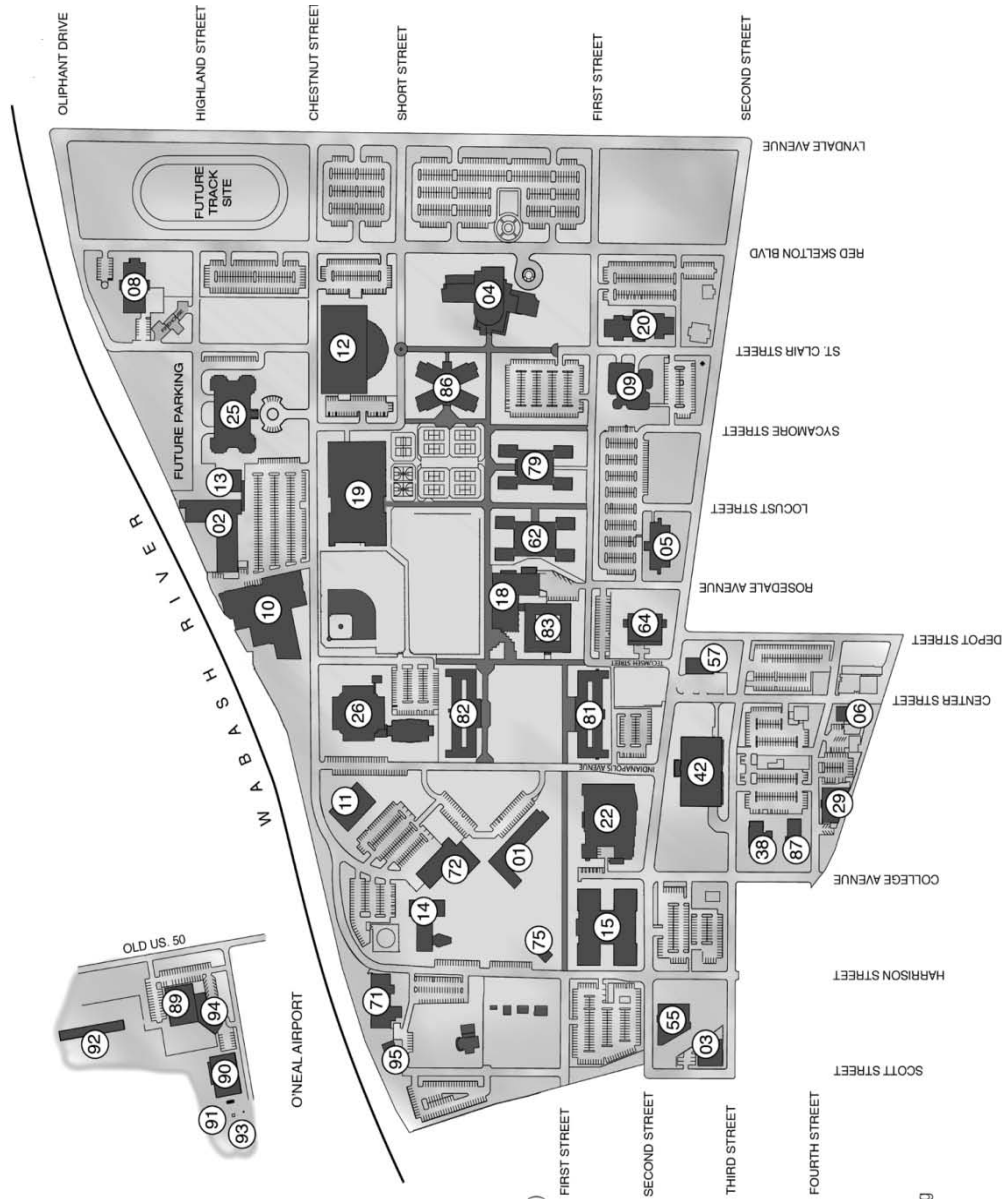
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# Vincennes University Campus Map

## Building Legend

01 WAB	Welsh Administration Building
02 ATB	Automotive Technology Building
03 ADA	Art Department Annex
04 RSPAC	Red Skelton Performing Arts Center
05 BB	Wathen Business Building
06 CB/A	Classroom Building A
08 CTB	Construction Technology Building
09 PTB	Printing Technology Building
10 TB	Technology Building
11 RBG	Beless Gymnasium
12 SRC	Bell Student Recreation Center
13 ABB	Auto Body Building
14 HOB	Health Occupations Building
15 SHC	Shircliff Humanities Center
18 TDC	Tecumseh Dining Center
19 PEC	Physical Education Center
20 PMSC	Phillip M. Summers Center
22 LRC	Shake Learning Resources Center/ Lewis Historical Wing
25 ICAT	Indiana Center for Applied Technology
26 MSC	McCormick Science Center
29 YB	Physics and Engineering Addition
38 DC	Community Services/Zella Young Hall
42 BSU	Louie O. Dayson Foundation & Alumni Center
55 JDPT	Beckes Student Union
57 SIB	John Deere Pro Tech
62 VH	Security & Information Building (Campus Police)
64 DH	Francis Vigo Residence Hall
71 GA	Davis Hall
72 GVH	Green Activities Center
75 MCC	Governor's Hall
79 GH	Maria Creek Chapel
81 CH	Godare Residence Hall
82 HH	Clark Residence Hall
83 MH	Harrison Residence Hall
86 VRH	Morris Residence Hall
87 TA	Vanderburgh Residence Hall
89 AAB *	Technology Annex
90 APB *	Aviation Maintenance Airframe Building
91 ATC *	Aviation Maintenance Power Plant Building
92 THB *	Aviation Engine Test Cells
93 APS *	Tea Hangar Building
94 OEA *	Aviation Paint Storage Building
95 GAA	Aviation Maintenance Classroom-Office Building Green Auditorium Annex

\* Located Off Main Campus at Westport, IL





**SERVING OUR COUNTRY IN  
OPERATION IRAQI FREEDOM**



In special recognition of all citizens of Indiana who served our country in Operation Iraqi Freedom during 2008-2009. Vincennes University thanks you for all the sacrifices you have made.

## **New Courses:**

### **Computer Networking Technology**

#### **CNET 151 Security Essentials**

**3 hrs (Sem I, II)**

Students will acquire the fundamentals of network and Internet security and understand the vulnerability most organizations have in their security systems with an emphasis on firewalls, security plans and Virtual Private Networks (VPNs). Discussions will include identification and authentication, network attacks, malicious code and viruses, wireless security, e-mail and web security and disaster recovery. 3 lecture/laboratory hours.

#### **CNET 236 Operating Systems I**

**3 hrs (Sem II)**

This course is an introduction to issues and topics relating to troubleshooting, operation, installation, and support of Microsoft operating systems. It is designed to prepare students to learn the objectives required to take the Microsoft Certified Desktop Support Technician (MCDST) exams. Topics within this course will include Windows installation, troubleshooting, upgrading, configuration, security, performance, & operation. 3 lecture/laboratory hours.

#### **CNET 237 Operating Systems II**

**3 hrs (Sem I)**

Students will continue their preparation for the MCDST exams. The Linux operating system will also be covered. The second part of this course is designed to start the students' preparation for the CompTIA Linux+ certification exam. Topics discussed within the second part of this course will include Linux installation, usage, file system management, and administration. 3 lecture/laboratory hours.

#### **CNET 238 Operating Systems III**

**3 hrs (Sem II)**

Students will explore topics and issues relating to Linux and build on their preparation for the Linux+ certification exam. Topics within this course include the Linux BASH shell, processes, administrative tasks, troubleshooting, performance, & security. By the end of this course, students should be prepared to sit for the Linux+ certification exam. 3 lecture/laboratory hours.

### **Computer Programming Technology**

#### **COMP 230 Advanced Communications and Networking**

**3 hrs (Sem I, II)**

Students will explore topics and issues related to networking in preparation for the CompTIA Network+ certification exam. Topics within this course include TCP/IP networking, network troubleshooting, network operating systems, integrity, availability and security. By the end of this course, students should be prepared to sit for the Network+ certification exam. 3 lecture/laboratory hours.