

Bulletin Home

Office of the Registrar

Indiana University-Purdue University Fort Wayne

2101 E. Coliseum Blvd.

Fort Wayne, IN 46805-1499

About IPFW

Indiana University-Purdue University Fort Wayne (IPFW) is a joint campus of two internationally recognized Big Ten schools. IPFW is accredited by The Higher Learning Commission of the North Central Association of Colleges and Schools. It has the broadest scope of programs of all institutions of higher learning in northeast Indiana, offering more than 190 degree and certificate options. IPFW has a diverse enrollment of nearly 12,000 students encompassing many ages, races, and nationalities. Through exemplary standards in teaching, research, and service, IPFW reflects Indiana University and Purdue University's commitments to excellence and lifelong learning. IPFW provides its students the opportunity for success through its academic diversity, affordability, and flexibility.

Frequently Asked Questions

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See Part 7: Regulations, Policies, Rights, and Responsibilities

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See Part 7: Regulations, Policies, Rights, and Responsibilities

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Where is the campus map?

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Chancellor's Message

Welcome to IPFW

Thank you for choosing Indiana University-Purdue University Fort Wayne for your undergraduate studies. You're certain to find a course of study in the more than 190 academic programs IPFW offers that will meet and perhaps exceed your expectations.

Faculty at IPFW are not just dedicated teachers, they are also nationally and internationally known scholars and researchers. You can be certain that the program you select will be of the highest quality. The professional accreditation by specific programs gives you further assurance that these degrees have met recognized national standards.

Undergraduate programs at IPFW prepare you for life, whether that means you enter the workforce in your chosen field or continue your studies at the graduate level. Many programs offer unique theoretical and practical hands-on learning experiences that draw on community resources. IPFW's small class sizes give you and your professors the opportunity to discuss issues and class assignments, or perhaps even collaborate on a research project.

Your undergraduate experience doesn't have to be all books and classrooms; it can be wonderfully enriched if you decide to get involved in any of the nearly 100 student organizations, Division I or intramural sports, and other special-interest activities. The Student Handbook Planner provides details on how you can get involved.

University services and support systems are for all students. The recreational facilities at the Gates Sports Center, informational resources of Helmke Library, productions at Williams Theatre, and job-placement assistance through Academic Counseling and Career Services are just a few of the resources available to you.

You have my best wishes for reaching your personal and career goals through your undergraduate studies at IPFW.

With warm regards,

Michael A. Wartell

Chancellor

Part 1. IPFW Profile

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About this Bulletin

The *Bulletin* provides information about the undergraduate programs, rules, courses, and faculty of Indiana University-Purdue University Fort Wayne (IPFW). Information about IPFW's graduate programs appears in a separate publication, the *IPFW Graduate Bulletin*.

Information in the *Bulletin* will help students to make important choices about their education, and it will familiarize them with the many important services IPFW provides. Since the *Bulletin* is a primary resource for making decisions about an IPFW education, it is important for students to retain a personal copy throughout their tenure at the university.

Changes occur as needs arise. Changes in rules and procedures generally become effective at the time they are published. Also, new or changed academic program requirements may provide you with additional options. Because of this, you should review statements on IPFW services, policies, programs, and courses in each new edition of the *Bulletin* published while you are a student. When you enter a degree or certificate program, you will be required to fulfill the requirements published in the *Bulletin* (or its supplement or departmental regulation) current at the time of your most recent entry or re-entry into that program at IPFW. Only with the written acknowledgment of your academic advisor can you elect to fulfill the requirements in any subsequent *Bulletin* or supplement. Your academic advisor can assist you with this choice and ensure that such changes are officially recorded.

NOTE: The information in this *Bulletin* is subject to change without notice. Actions by federal and state governments and the boards of trustees, administration, and faculty of the universities may produce such changes.

About the University

Indiana University-Purdue University Fort Wayne (IPFW) offers more academic and extracurricular opportunities than any other higher education institution in northeast Indiana. A joint campus of two internationally recognized Big Ten schools, IPFW grants both Indiana University and Purdue University degrees.

IPFW reflects the IU and Purdue commitments to excellence in teaching, research, and service. The university takes advantage of the latest technologies in order to enhance information exchange, classroom instruction, research, and communications. Indiana University and Purdue University carry traditions of distinction in humanities, the arts, health sciences, social sciences, engineering, technology, and computer science.

IPFW provides access to an excellent education through academic diversity, flexibility, and affordability. IPFW students have access to superior research, academic, and extracurricular pursuits. IPFW is committed to the continued educational, economic, and cultural development of its 11-county service area.

Nearly 12,000 students, ranging in age from 14 to 79, are enrolled in more than 190 academic programs. The university offers undergraduate and graduate degrees as well as certificate options. Some 7,500 additional students pursue noncredit continuing education courses. While the diverse student body continues to grow, the average class size remains 22.

The university is accredited by The Higher Learning Commission of the North Central Association of Colleges and Schools. Various schools, divisions, and programs have earned additional accreditation through professional societies.

IPFW History The history of IPFW is a history of mergers. IPFW has steadily evolved since the initial merger of the IU and Purdue Fort Wayne regional campuses in 1964. A gift of additional land by a consortium of local donors has increased the size of the campus to 643 acres, including land on the east and west banks of the St. Joseph River. Physically, the university has grown from a single building into a multicampus community cornerstone offering an unparalleled range of educational and cultural opportunities.

Academic Programs Degree and certificate programs are offered through 11 colleges, schools, or divisions. Arts and Sciences, Health Sciences, and Visual and Performing Arts contain departments offering both IU and Purdue degree programs. Engineering, Technology, and Computer Science and Organizational Leadership and Supervision offer only Purdue degree programs; Business and Management Sciences, Education, General Studies, Labor Studies, and Public and Environmental Affairs, only Indiana. Academic Counseling and Career Services serves lower-division students who have not chosen a degree program. The Division of Continuing Studies offers credit and noncredit programs throughout northeast Indiana in cooperation with degree-granting schools and divisions. Other entities, such as the Indiana University School of Medicine, offer programs at IPFW with varying degrees of campus affiliation. Many individual schools and programs are accredited by professional program associations.

IPFW stresses a constructive relationship between teaching and research. Most IPFW faculty members devote 25 percent of their effort to research. Some receive support from internally funded summer fellowships and grants-in-aid. Other support is available through the Purdue and IU systems. External grants and contracts regularly account for more than \$1 million a year. These activities reflect the research missions of Indiana and Purdue universities; however, projects tend to involve individuals or small groups of researchers rather than large staffs and facilities, and special emphasis is placed on studies directly related to regional needs and interests. Faculty are encouraged to involve undergraduate students in research projects.

Learning Assessment IPFW is committed to providing quality education for our students. Several assessment and evaluation processes have been implemented that help us determine the effectiveness of our academic programs and service units as a whole.

Assessment is important to you because it gives you an opportunity to tell us how well we are doing. For example, you may be asked periodically to give us your feedback about the quality of academic services through a questionnaire. We may also ask you to participate by submitting anonymous examples of your course work and participating in focus groups. These activities help us determine the extent to which IPFW is contributing to your preparation for a career and life.

Core Mission The core mission of IPFW is to provide quality postsecondary education in northeast Indiana by focusing on student learning, while fostering intellectual exploration and attainment, and serving the region.

IPFW Goals Long-range goals of the university include continued improvement of academic programs, expanded faculty development programs, enhanced library collections and services, increased university and external support for research, increased academic and fiscal autonomy, attraction and retention of a more heterogeneous student body, expansion of graduate programs that serve regional needs, active support for regional economic development programs, and greater integration with the economic and cultural communities of the region.

The fifth-largest university in Indiana, IPFW has grown without sacrificing its commitment to faculty-student interaction. Quality of teaching will continue to be a major criterion for faculty compensation and promotion-and-tenure decisions and will be recognized through awards for distinguished teaching. To attract and retain outstanding teachers, IPFW will continue its effort to provide competitive levels of faculty compensation.

IPFW will also sustain and enhance support of faculty research and will expand opportunities for students to participate in research projects. The university will promote the use of technology as a feature of university education across the curriculum.

IPFW is committed to preparing students of northeast Indiana for productive lives in a multicultural, changing world. Special attention is given to bringing university education to nontraditional students. The campus will expand efforts to increase matriculation and retention of minority students, and in a related effort, to hire and retain minority faculty.

The campus will continue to build programs of academic support for all students, including those programs intended for students of outstanding ability. Because diversity of student body and staff is an essential component of the university experience, IPFW

also intends to attract a somewhat larger number of students from outside the region. To this end, and to accommodate verifiable local demand, a student housing complex with apartment-style floor plans opened in August 2004.

IPFW plays an important role in the cultural and economic life of northeast Indiana. Faculty community service is and will continue to be encouraged. The university maintains and expects to strengthen relationships with community arts organizations and seeks additional opportunities to serve as a vital resource for business, industry, public and private education, and government in northeast Indiana. Retraining of the workforce and response to changes in the economy will be important priorities in years to come, as will efforts to improve services for an increasingly diverse student body. The campus seeks to organize its efforts and relationships with IU and Purdue in ways that will enhance its ability to anticipate and respond to regional needs. The continued development of the campus, with community support engendered by this development, will allow IPFW to meet the increasing demand for higher education in northeast Indiana.

IPFW Statements on Diversity In fall 1994, Chancellor Michael Wartell established the following campus statement on diversity:

Indiana University-Purdue University Fort Wayne recognizes, affirms, and celebrates the diversity in its campus, local, state, and national communities. Each member of these communities represents varied and different cultures and attributes simultaneously, yet because of these differences, many have been systematically excluded from full, fair, and respected participation in higher education. Therefore, Indiana University-Purdue University Fort Wayne seeks to demonstrate through its curriculum, support systems, and policies that it values these differences, creating and maintaining a campus environment that welcomes diverse characteristics, backgrounds, and experiences and identifying such diversity as a vital source of the intellectual, social, and personal growth essential to a university education.

To implement the above statement, Chancellor Wartell appointed a campus Diversity Council. In fall 1995, the Diversity Council published the following definition of diversity:

The Diversity Council is committed to creating an environment that enhances learning by recognizing the inherent worth of all individuals at the university. It is our conviction that diversity stimulates creativity, promotes the exchange of ideas, and enriches campus life. Diversity involves the differences among individuals that reflect the cultures from which the university draws strength, including, but not necessarily limited to, differences of race, ethnicity, color, gender, sexual orientation, class, age, and disabilities, as well as political and religious affiliation, and socioeconomic status.

Undergraduate Programs: Degrees, Certificates, Minors, and Transfers

IPFW is accredited by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools. Information about North Central accreditation is available from the vice chancellor for academic affairs (KT 170, 260-481-6805). You may also contact the North Central Association directly by writing to 30 North LaSalle St., Suite 2400, Chicago, IL 60602-2504; or by phone at 800-621-7440.

The following is an alphabetical list of all undergraduate degree, certificate, minor, and transfer programs available at IPFW.

- A *degree* is an award earned by satisfactorily completing a specified program of courses and adhering to the applicable academic regulations. Each degree includes one or more major fields of study. Completion of a degree program is acknowledged by receipt of a diploma. The two most common degrees earned by IPFW students are the associate degree (abbreviated A.A. for Associate of Arts and A.S. for Associate of Science) and the bachelor's degree (abbreviated B.A. for Bachelor of Arts and B.S. for Bachelor of Science). Earning an associate degree requires at least two years of full-time study, with a longer period if enrolled only part time. Earning a bachelor's degree takes about twice as long.
- A *certificate* is not a college degree, but is composed of a series of courses that focus on a specialized area of knowledge or specific skills. The university recognizes completion of the required courses and satisfaction of applicable academic regulations by awarding a certificate.

- A *minor* is a less comprehensive program of study which is chosen in conjunction with a major field of study. To earn a minor, the student must complete a degree program in a different subject area.
- A *transfer* program is a series of courses that will apply toward a degree to be awarded by another campus of IU or Purdue. Credits for these courses can be transferred to the other campus, but students are required to satisfy the admission and graduation requirements of the campus to which they transfer.

School and division codes in the following list are as follows:

ANS:	Arts and Sciences	HSC:	Health Sciences
BMS:	Business and Management Sciences	LS:	Labor Studies
CS:	Continuing Studies	OLS:	Organizational Leadership and Supervision
EDUC:	Education	PEA:	Public and Environmental Affairs
ETCS:	Engineering, Technology, and Computer Science	VPA:	Visual and Performing Arts

Program	University	School or Division/Department	Degree/Certificate
Accounting	I	BMS/Accounting and Finance	Post-Baccalaureate Certificate in Accounting
Advanced Microprocessors	P	ETCS/Electrical and Computer Engineering Technology	Certificate
Agriculture	P	ANS	Transfer Programs
American Studies	I	ANS	Certificate in American Studies
Anthropology	I	ANS/Sociology and Anthropology	B.A., Minor, Research Certificate in Anthropology
Applied Ethics	P	ANS/Philosophy	Minor
Architectural Engineering Technology	P	ETCS/Civil and Architectural Engineering Technology	A.S.
Art Education	I	VPA/Visual Arts/Fine Arts	B.A.
Art History	I	VPA/Visual Arts/Fine Arts	Minor
Arts	I, P	ANS	A.A.
Biology	P	ANS/Biology	A.A., B.S., Minor, Research Certificate
Biology Teaching	P	ANS/Biology	B.S.
Business	I	BMS	A.S.B., B.S.B.
Business Studies	I	BMS	Minor
Chemical Methods	P	ANS/Chemistry	A.S.

Chemistry	P	ANS/Chemistry	B.S., B.S.C., Minor, Research Certificate
Chemistry Teaching	P	ANS/Chemistry	B.S.
Civil Engineering Technology	P	ETCS/Civil and Architectural Engineering Technology	A.S.
Commercial Art	I	VPA/Visual Arts/Visual Communication and Design	A.S. in Commercial Art
Communication Studies	P	ANS/Communication	Minor
Computer-Controlled Systems	P	ETCS/Electrical and Computer Engineering Technology	Certificate
Computer Engineering	P	ETCS/Engineering	B.S.Comp.E.
Computer Engineering Technology	P	ETCS/Electrical and Computer Engineering Technology	B.S.
Computer Networking	P	ETCS/Electrical and Computer Engineering Technology	Certificate
Computer Science	P	ETCS/Computer Science	A.S., B.S., Minor
Computer Science	P	ANS/Mathematical Sciences	B.A.
Construction Engineering Technology	P	ETCS/Civil and Architectural Engineering Technology	B.S.
Consumer and Family Sciences	P	HSC/Consumer and Family Sciences	Transfer Program
Creative Writing	I	ANS/English and Linguistics	Minor
Criminal Justice	I	PEA	Minor
Critical Care Nursing	P	HSC/Nursing	Certificate
Cytotechnology	I	HSC	Transfer Program
Dance	P	VPA/Theatre	Minor
Dental Assisting	I	HSC/Dental Education	Certificate in Dental Assisting
Dental Hygiene	I	HSC/Dental Education	A.S. in Dental Hygiene
Dental Laboratory Technology	I	HSC/Dental Education	A.S. in Dental Laboratory Technology
Early Childhood Education	I	EDUC/Educational Studies	A.S.Ed.

Economics	I	ANS/Political Science	B.A., Minor
Electrical Engineering	P	ETCS/Engineering	B.S.E.E.
Electrical Engineering Technology	P	ETCS/Electrical and Computer Engineering Technology	A.S., B.S.
Electronic Communications	P	ETCS/Electrical and Computer Engineering Technology	Certificate
Electronics	P	ETCS/Electrical and Computer Engineering Technology	Minor
Elementary Education	I	EDUC/Educational Studies	B.S.Ed.
English	I	ANS/English and Linguistics	A.A., B.A., Minor
Ethnic and Cultural Studies	I	ANS	Certificate in Ethnic and Cultural Studies
Film and Media Studies	I	ANS/Communication	Minor
Fine Arts	I	VPA/Visual Arts/Fine Arts	B.A., B.F.A., Minor
Fine Arts	I	VPA/Visual Arts/Visual Communication and Design	B.F.A., Minor
Folklore	I	ANS/English and Linguistics	Minor
Forestry and Natural Resources	P	ANS	Transfer Program
French	I	ANS/International Language and Culture Studies	A.A., B.A., Minor
General Studies	I	CS	A.A.G.S., B.G.S.
Geology	I	ANS/Geosciences	B.A., B.S.G., Minor
German	I	ANS/International Language and Culture Studies	A.A., B.A., Minor
Gerontology	I	ANS	Certificate in Gerontology
Health Information Administration	I	HSC	Transfer Program
History	I	ANS/History	A.A., B.A., Minor
Honors Program	I, P	OAA/Honors	Certificate
Hospitality Management	P	HSC/Consumer and Family Sciences	B.S.

Hotel, Restaurant, and Tourism Management	P	HSC/Consumer and Family Sciences	A.S.
Human Services	P	HSC/Human Services	B.S.
Industrial Engineering Technology	P	ETCS/Mechanical and Industrial Engineering Technology	A.S., B.S.
Information Systems	P	ETCS/Computer Science	A.S., B.S., Minor
Interior Design	P	ETCS/Civil and Architectural Engineering Technology	A.S.
International Studies	I	ANS	Certificate in International Studies
Interpersonal and Organizational Communication	P	ANS/Communication	B.A.
Journalism	I	ANS/Journalism	Minor, Transfer Program
Labor Studies	I	Labor Studies	A.S.L.S., B.S.L.S., Certificate in Labor Studies, Minor
Linguistics	I	ANS/English and Linguistics	Minor
Mathematics	P	ANS/Mathematical Sciences	A.A., B.S., Minor, Research Certificate
Mathematics Teaching	P	ANS/Mathematical Sciences	B.S.
Mechanical Engineering	P	ETCS/Engineering	B.S.M.E
Mechanical Engineering Technology	P	ETCS/Mechanical and Industrial Engineering Technology	A.S., B.S.
Media and Public Communication	P	ANS/Communication	B.A.
Media Production	P	ANS/Communication	Minor
Medical Imaging Technology	I	HSC	Transfer Program
Medical Technology	P	ANS	B.S.
Music and an Outside Field	I	VPA/Music	B.S.
Music Education	I	VPA/Music	B.Mus.Ed.
Music Performance	I	VPA/Music	B.Mus.
Music Therapy	I	VPA/Music	B.S.M.T.

Native American Studies	I	ANS	Certificate in Native American Studies
Nuclear Medicine	I	HSC	Transfer Program
Nursing	P	HSC/Nursing	A.S., B.S., LPN-A.S. or B.S., RN-B.S.
Occupational Therapy	I	HSC	Graduate Program
Organizational Leadership and Supervision	P	OLS	A.S., B.S., Minor
Paramedic Sciences	I	HSC	Transfer Program
Peace and Conflict Studies	I	ANS	Certificate in Peace and Conflict Studies
Philosophy	P	ANS/Philosophy	B.A., Minor
Physical Therapy	I	HSC	Transfer Program
Physics	P	ANS/Physics	B.S., Minor, Research Certificate
Physics Teaching	P	ANS/Physics	B.S.
Piano Pedagogy	I	VPA/Music	Certificate in Piano Pedagogy
Political Science	I	ANS/Political Science	A.A., B.A., Minor
Power Electronic Systems	P	ETCS/Electrical and Computer Engineering Technology	Certificate
Prepharmacy	P	ANS	Transfer Program
Preveterinary	P	ANS	Transfer Program
Preveterinary Technology	P	ANS	Transfer Program
Professional Writing	I	ANS/English and Linguistics	Minor
Psychology	P	ANS/Psychology	A.A., B.A., Minor, Research Certificate
Public Affairs	I	PEA	Minor
Public Affairs: Criminal Justice	I	PEA	B.S.P.A.
Public Affairs: Environmental Policy	I	PEA	B.S.P.A.

Public Affairs: Health Services Administration	I	PEA	B.S.P.A.
Public Affairs: Legal Studies	I	PEA	B.S.P.A.
Public Affairs: Public Management	I	PEA	B.S.P.A.
Public Affairs: Specialized Study	I	PEA	B.S.P.A.
Public Relations	I	ANS	Minor
Quality	P	ETCS/Mechanical and Industrial Engineering Technology	Certificate
Radiation Therapy	I	HSC	Transfer Program
Radiography	I	HSC	A.S.R.
Religious Studies	P	ANS/Philosophy	Minor
Respiratory Therapy	I	HSC	Transfer Program
Risk and Emergency Management	I	PEA	Certificate in Risk and Emergency Management
Secondary Education	I	EDUC/Educational Studies	B.S.Ed.
Sociology	I	ANS/Sociology and Anthropology	B.A., Minor
Spanish	I	ANS/International Language and Culture Studies	A.A., B.A. Minor
Speech and Hearing Therapy	P	ANS/Audiology and Speech Sciences	B.S.
Supervisory Leadership	P	OLS	Certificate
Teaching English as a New Language	I	ANS/English and Linguistics	Certificate in Teaching English as a New Language
Theatre	P	VPA/Theatre	B.A., Minor
Theatre Teaching	P	VPA/Theatre	B.A., Minor
Women's Studies	I, P	ANS	A.A., B.A., Certificate in Women's Studies, Minor

IPFW Office Directory

Campus Emergencies-Police (PP 102)	481-6911
Campus Emergencies-Medical	6911
Weather-related Announcements	481-6050
Campus General Information/Switchboard (KT 153A)	481-6100
Academic Counseling and Career Services (KT 109)	481-6595
Academic Support and Advancement, Center for (KT G23)	481-6817
Admissions (KT 111)	481-6812
Affirmative Action/Equal Opportunity (KT 110N)	481-6106
Athletics, Recreation, and Intramural Sports (GC 201)	481-6643
Athletics-Reservation Desk (GC 210)	481-6655
Bookstore (KT G10)	483-6100
Bursar (KT G57)	481-6824
Child Care Center (CCC, 4133 Hobson Road)	481-0111
Continuing Studies (KT 145)	481-6619
Off-Campus Credit Programs (KT 145)	481-6111
Cooperative Education (NF 337)	481-6939
Dean of Students (WU 111)	481-6601
Disabilities, Services for Students with (WU 118)	481-6832
Diversity and Multicultural Affairs (WU 118)	481-6608
Financial Aid (KT 103)	481-6820
Graduate Studies	481-6795
Honors Program (WU G25)	481-6924
International Student Services (KT 104)	481-6923
Library, Walter E. Helmke (LB 148)	481-6512
Police and Safety (PP 102)	481-6900

Purdue-Indiana Theatre Box Office (WT 124A)	481-6555
Registrar (KT 107)	481-6815
Student Life (WU 115)	481-6609
Student Government Association (WU 225)	481-6586
Veterans' Benefits Representative (KT 107)	481-6126
Women and Returning Adults, Center for (WU 120)	481-6029
Writing Center (KT G19)	481-5740

Colleges, Schools, and Divisions

Arts and Sciences (CM 153)	481-6160
Business and Management Sciences (NF 360)	481-6472
Continuing Studies (KT 145)	481-6619
Education (NF 250B)	481-6441
Engineering, Technology, and Computer Science (ET 243B)	481-6839
Health Sciences (NF 142)	481-6967
Labor Studies (KT G28)	481-6831
Organizational Leadership and Supervision (NF 288)	481-6420
Public and Environmental Affairs (NF 260)	481-6351
Visual and Performing Arts (VA 102)	481-6977

IPFW Bookstore Hours (fall/spring)

Monday-Thursday	8:30 a.m.-7:30 p.m.
Friday	8:30 a.m.-3 p.m.
Saturday	10 a.m.-1 p.m.

Helmke Library Hours (fall/spring)

Monday-Thursday	
Friday	8 a.m.-11 p.m.
Saturday	8 a.m.-6 p.m.
Sunday	

Part 2: General Education Requirements

Click on a link to be taken to the entry below.

- [Area I: Linguistic and Numerical Foundations](#)
- [Area II: Natural and Physical Sciences](#)
- [Area III: The Individual, Culture, and Society](#)
- [Area IV: Humanistic Thought](#)
- [Area V: Creative and Artistic Expression](#)
- [Area VI: Inquiry and Analysis](#)
- [Subject Area Abbreviation Key](#)

Students who entered IPFW for the first time in fall 1995 or a subsequent term in a bachelor's degree program, or transferred into a new bachelor's degree program, are required to satisfy IPFW's General Education program as part of their degree requirements. The courses listed below may be used to satisfy these requirements. The student's advisor will know of any courses that have been added to this list.

Students should check specific school requirements to determine if any special conditions about general education apply to their major. Under certain circumstances, students may be allowed to substitute courses for those listed below. An academic advisor will explain the procedure for requesting a substitution.

The General Education Web site is www.ipfw.edu/academics/gened/.

See the Subject Area Abbreviation Key at the end of this section to determine the subject area under which the course falls, e.g., ENG W131 falls under English.

Area I: Linguistic and Numerical Foundations

(9 credits)

Course List:

Area II: Natural and Physical Sciences

(6 credits)

Course List:

Area III: The Individual, Culture, and Society

(6 credits)

Course List:

Area IV: Humanistic Thought

(6 credits)

Course List:

Area V: Creative and Artistic Expression (3 credits)

(3 credits)

Course List:

Area VI: Inquiry and Analysis

(3 credits)

Course List:

Subject Area Abbreviation Key

A&AE	Aerodynamics and Aeronautical Engineering
ACE	Adult Continuing Education
ACS	Applied Computer Science
AFRO	Afro-American Studies
AGR	Agriculture
AGRY	Agronomy
AHLT	Allied Health
AMST	American Studies
ANSC	Animal Sciences
ANTH	Anthropology

ARET	Architectural Engineering Technology
AST	Astronomy
AUS	Audiology and Speech Sciences
BCHM	Biochemistry
BIOL	Biology
BUFW	Business-Fort Wayne
BUS	Business
CDFS	Child Development and Family Studies
CE	Civil Engineering
CET	Civil Engineering Technology
CFS	Consumer and Family Sciences
CHE	Chemical Engineering
CHM	Chemistry
CIMT	Computer-Integrated Manufacturing Technology
CLAS	Classical Studies
CMLT	Comparative Literature
CNET	Construction Engineering Technology
COAS	Arts and Sciences-General
COM	Communication
CPET	Computer Engineering Technology
CS	Computer Science
CSR	Consumer Sciences and Retailing
DAST	Dental Assisting
DHYG	Dental Hygiene
DLTP	Dental Lab Technology
EALC	East Asian Language and Culture (Chinese)
ECON	Economics
EDUA	Education
EDUC	Education
ECE	Electrical Engineering
ECET	Electrical and Computer Engineering Technology
ENG	English
ENGR	Engineering
ENTM	Entomology
FILM	Film Studies
FINA	Fine Arts
FNN	Foods and Nutrition
FNR	Forestry and Natural Resources
FOLK	Folklore
FREN	French
FWAS	Fort Wayne Arts and Sciences
GEOG	Geography
GEOL	Geology
GER	German
GERN	Gerontology
HIST	History
HON	Honors
HORT	Horticulture
HPER	Health, Physical Education, and Recreation
HSCI	Health Sciences
HSRV	Human Services
HTM	Hotel, Restaurant, and Tourism Management (formerly RHIT)
HUMA	Humanities
IDIS	Interdisciplinary Studies and Honors

IE	Industrial Engineering
IET	Industrial Engineering Technology
IM	Informatics
INTL	International Studies
INTR	Interior Design
JOUR	Journalism
LBST	Liberal Studies
LING	Linguistics
LSTU	Labor Studies
LTAM	Latin American Studies
MA	Mathematics
ME	Mechanical Engineering
MET	Mechanical Engineering Technology
MSE	Materials Engineering
MUS	Music
NUR	Nursing
OLS	Organizational Leadership and Supervision
PACS	Peace and Conflict Studies
PCTX	Pharmacology and Toxicology
PHIL	Philosophy
PHYS	Physics
POLS	Political Science
PSY	Psychology
REL	Religion
SLAV	Slavic Languages (Russian)
SLIS	Library and Information Science
SOC	Sociology
SPAN	Spanish
SPEA	Public and Environmental Affairs
STAT	Statistics
SWK	Social Work
THTR	Theatre
VCD	Visual Communication and Design
VICT	Victorian Studies
VM	Veterinary
WOST	Women's Studies

Part 3: Colleges, Schools & Divisions

Indiana University-Purdue University Fort Wayne

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 243 ~ 260-481-6839 ~ www.etc.cs.ipfw.edu

The objective of the College of Engineering, Technology, and Computer Science (ETCS) is to be an increasingly valuable technological resource for its students, and to serve society as an integral component of a unique and comprehensive university with vigorous regional ties and a growing national reputation. Within the broader mission of the university, the college's goal is to prepare technicians, technologists, computer professionals, and engineers, and to provide its students with opportunities to develop fundamental skills, knowledge, and a professional attitude.

ETCS offers degree programs in computer science, engineering technologies, and engineering. Courses for these programs range from the study of fundamentals to practical, real-world, industrial methods.

Academic Programs

Full descriptions of the college's certificate and degree programs appear in alphabetical order in Part 4 of this *Bulletin*.

Associate of Science

Subject

Architectural Engineering Technology
Civil Engineering Technology
Computer Science
Electrical Engineering Technology
Industrial Engineering Technology
Information Systems
Interior Design
Mechanical Engineering Technology

Department

Civil and Architectural Engineering Technology
Civil and Architectural Engineering Technology
Computer Science
Electrical and Computer Engineering Technology
Mechanical and Industrial Engineering Technology
Computer Science
Civil and Architectural Engineering Technology
Mechanical and Industrial Engineering Technology

Bachelor of Science

Subject

Computer Engineering (B.S.Cp.E.)
Computer Engineering Technology (B.S.)
Computer Science (B.S.)
Construction Engineering Technology (B.S.)
Electrical Engineering Engineering (B.S.E.E.)
Electrical Engineering Technology (B.S.)

Department

Engineering
Electrical and Computer Engineering Technology
Computer Science
Civil and Architectural Engineering Technology
Engineering
Electrical and Computer Engineering Technology

Industrial Engineering Technology (B.S.)
Information Systems (B.S.)
Interior Design (B.S.)
Mechanical Engineering Engineering (B.S.M.E.)
Mechanical Engineering Technology (B.S.)

Mechanical and Industrial Engineering Technology
Computer Science
Civil and Architectural Engineering Technology
Engineering
Mechanical and Industrial Engineering Technology

Certificate

Subject

Advanced Microprocessors
Computer Controlled Systems
Computer Networking
Electronic Communications
Power Electronic Systems
Quality

Department

Electrical and Computer Engineering Technology
Electrical and Computer Engineering Technology
Electrical and Computer Engineering Technology
Electrical and Computer Engineering Technology
Electrical and Computer Engineering Technology
Mechanical and Industrial Engineering Technology

Minor

Subject

Computer Science
Electronics
Information Systems

Department

Computer Science
Electrical and Computer Engineering Technology
Computer Science

Transfer Program

Subject

Engineering

Department

Engineering

General Degree and Certificate Requirements

In addition to the academic regulations of IPFW (see Part 7), the following rules apply to students in the college. Where the college regulations are stricter than IPFW regulations, the college regulations apply.

Certificates and Associate Degrees

Requirements for certificates and Associate of Science degrees offered by the college are specified in the college's departmental listings.

Bachelor's Degrees

In addition to the requirements of IPFW (see Part 7) and those of your elected major, you must satisfy the following requirements of the College of Engineering, Technology, and Computer Science:

1. Earn a minimum of 124 credits.
2. Earn a graduation GPA of 2.00 or better in courses required for the major that are offered by the major department.
3. Satisfactorily complete ENG W131 or an equivalent English composition course with a grade of C or better.
4. Satisfactorily complete any additional degree requirements defined by individual departments based upon respective accrediting body criteria.

No credit toward graduation will be given for (a) courses or sequences considered to have overlapping content (see listings, School of Arts and Sciences) and (b) developmental courses such as CHM 100; EDUC X15x; ENG R15x, W11x, W130; and MA 109, 111, 113.

Graduation Survey

All ETCS students need to complete an online survey prior to graduation. Contact your department for more information.

Cooperative Education (Co-Op) and Related Programs

The college's departments offer many options for Cooperative Education experiences. Regular co-op positions, work-study internships, and practicum positions are available and many departments offer laboratory or teaching assistantships. You should check with your department for these opportunities.

Civil and Architectural Engineering Technology

Department of Civil and Architectural Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 229 ~ 260-481-6797 ~ www.caet.ipfw.edu

Mission

To provide employers and the public of northeast Indiana with educated, technologically equipped graduates, able to serve the varied construction industries (represented by architectural, civil, and construction engineering technologies, and interior design) in advancing the solutions to problems facing the public and private sector.

Goals

- To provide education of the traditional and returning adult student for career success in the construction industry
- To develop a respect for diversity and a knowledge of contemporary professional, societal, and global issues with an understanding of professional and ethical responsibilities.
- To be responsive to the ever-changing technologies of the construction industries.
- To instill in students the desire for and ability to engage in lifelong learning.

The breadth of the curriculum will provide leadership potential in addressing problems of the region, its people, and its industries.

This program helps you prepare for employment with land surveying offices, highway departments, government engineering offices, railroads, utilities, general construction contracting firms, material supply organizations, and engineering consulting firms. You may work in estimating, drafting, structural detailing, construction expediting, sales, and surveying. Graduates with experience have become construction supervisors, chief drafting personnel, chiefs of survey parties, contractors, project superintendents, designers, and estimators. This program also prepares you to work toward the bachelor's degree in construction engineering technology. The civil engineering technology program does not lead to licensure as a professional engineer.

The department offers related majors in architectural engineering technology and construction engineering technology. All three programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, 410-347-7700, and provide problem-solving skills, hands-on competency, and state-of-the-art technical knowledge. Alumni of the department are employed in all areas of the building industry, including construction; architecture; interior design; civil engineering; land surveying; and state, county, and city governments.

Computer Science

Department of Computer Science **College of Engineering, Technology, and Computer Science**

Engineering, Technology, and Computer Science Building 125 ~ 260-481-6803 ~ www.cs.ipfw.edu

Mission

The department strives to offer students excellent instruction and educational opportunities in computer science, information systems, and applied computer science.

It endeavors to provide its students a durable technical foundation in an environment of rapid technical change, to enable and promote their professional growth through contact with the best professional practice, and to play a role of resource and technical leadership in the regional communities.

Program Objectives

Graduates of both undergraduate programs must be able to:

- Analyze, design, implement, and evaluate a computerized solution to a real-life problem using appropriate tools.
- Communicate effectively through speaking, writing, and the use of presentation tools.
- Work effectively as a team member.
- Enter a professional computer science/information systems position or an appropriate graduate program.
- Pursue lifelong learning and continued professional development.
- Be aware of ethical and societal concerns relating to computers in society and apply this knowledge in the conduct of their careers.

Note:

Two bachelor's programs in computer science are offered: a B.A. and a B.S. You should review both programs, described below, before selecting one.

The degree programs in computer science provide a strong background to students interested in developing software for diverse computer applications. Preparation includes an understanding of programming and problem solving, data abstraction, computer hardware organization, operating systems, programming language design and translation, and development of large-scale software systems.

Division of Organizational Leadership and Supervision

Neff Hall 288 ~ 260-481-6420 ~ www.ipfw.edu/ols/

The mission of the Division of Organizational Leadership and Supervision (OLS) is to integrate theory and practical application in developing leaders for roles in the dynamic organizational environment of the 21st century. This goal is accomplished through an interdisciplinary curriculum that emphasizes an understanding of people, groups, and the global community within an organizational framework.

OLS combines the study of leadership with a career concentration. The program focuses on understanding and working with people within organizations and the practical application of leadership concepts and theories. Students' creativity and competence in the administration of human resource systems, team design and facilitation, and the influencing processes that define leadership are developed through this program.

The division offers the following academic programs, which are described in Part 4 of this *Bulletin*.

Subject

Organizational Leadership and Supervision
Supervisory Leadership

Program

A.S., B.S., and Minor
Certificate

Electrical and Computer Engineering Technology

Department of Electrical and Computer Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

The Department of Electrical and Computer Engineering Technology (ECET) offers the Bachelor of Science with a major in computer engineering technology (CPET) and the Associate of Science and Bachelor of Science with a major in electrical engineering technology (EET). The CPET B.S. program prepares students for careers as professionals in many areas involving computer systems and electronics. Some of these are hardware and software support and design for industrial networking, Internet and networking control, computer systems, instrumentation, and other emerging technical areas. Program graduates have titles such as embedded software technologist, computer support specialist, networking support specialist, automation engineer, applications engineer, telecommunications engineer, network support technical/engineer, and network administrator. The ECET department has more than 1,000 alumni with A.S. and/or B.S. EET degrees and hold technical and managerial positions nationwide.

This new CPET program was approved by the Indiana Commission of Higher Education in October 2003 and will be ready for accreditation in 2010 by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology

Inc. (TAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, 410-347-7700. In addition to the degree programs, the department also offers a minor in electronics and certificate programs in advanced microprocessors, computer controlled systems, electronics communications, power electronics systems, and computer networking.

Mission

The mission of the department is to offer high-quality undergraduate EET, CPET, and certificate programs. These programs meet regional needs and include credit and noncredit training in electrical, electronics, computer applications, and computer networking. The department seeks to advance and share technical knowledge through teaching and creative endeavors, and to work with regional industries to develop and increase technically knowledgeable human resources.

Engineering

Department of Engineering **College of Engineering, Technology, and Computer Science**

Engineering, Technology, and Computer Science Building 327 ~ 260-481-6362 ~ www.engr.ipfw.edu

IPFW offers bachelor's programs in electrical engineering, mechanical engineering, and computer engineering. The electrical and mechanical engineering programs are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology Inc. (EAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, 410-347-7700. The computer engineering program is new and being reviewed for accreditation.

Studies in engineering emphasize the practical and analytical aspects of engineering by combining laboratory and lecture courses in the sciences, humanities, and engineering sciences.

Mission

The mission of the Department of Engineering is to offer engineering programs that prepare students for successful careers in professional engineering positions. The engineering programs will be accessible to traditional and nontraditional students and will support evolving career objectives through an emphasis on the value of lifelong learning.

Educational Objectives

The faculty of the engineering department at IPFW is committed to continuous improvements in its engineering programs. As such, the faculty continues to work with the alumni, their employers, and the Industrial Advisory Board to develop the following educational objectives:

- To prepare students for successful careers in industry, tailored to meet the needs of the northeast Indiana region.
- To develop student expertise in the synthesis process, with an emphasis on product design.
- To provide the opportunity for students to work as a team on multidisciplinary projects.
- To provide students with a sound foundation in the mathematical, scientific, and engineering fundamentals necessary to solve engineering problems and to pursue graduate study.
- To promote student awareness of the need for professional registration and lifelong learning, to introduce students to written ethical code and to offer them ethical guidance as they embark on their careers.

Admission

To gain admission to the B.S.E.E. or B.S.M.E. programs, in addition to satisfying IPFW admission requirements (see Part 7), you should rank in the upper half of your high-school class and have the following courses on your record:

<i>Subject</i>	<i>Semesters</i>
Algebra	4
Biology or physics	2
Chemistry	2
English	8
Plane geometry	2
Trigonometry	1

Additionally, you must have a minimum SAT I verbal score of 480 and an SAT I mathematics score of 520 for admission to freshman engineering. If you only partially meet the above requirements, you may be admitted to IPFW in a pre-engineering status while taking courses that will prepare you for admission to an engineering program.

Admission deadlines for the Department of Engineering are:

Aug. 1 for the fall semester.

Dec. 15 for the spring semester.

May 1 for Summer Session I.

June 15 for Summer Session II.

Special Academic Regulations for Students in the Department of Engineering

Plan of Study

A one-year plan of study must be approved by your academic advisor every semester to ensure that you are making progress towards graduation.

Concentration Course Grades

You must have a combined GPA of at least 2.00 in all ECE, ENGR, and ME courses and in any other courses used to fulfill technical-elective requirements. It is your responsibility to see that this requirement is met. Even though the grade of D is accepted as a passing grade (except in COM 114, ENG W131, and all mathematics courses where a grade of C or better is required), it is highly recommended that the course be repeated if it serves as a prerequisite to another required course.

Mechanical and Industrial Engineering Technology

Department of Mechanical and Industrial Engineering Technology

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 205 ~ 260-481-6385 ~ www.mft.ipfw.edu

The Department of Mechanical and Industrial Engineering Technology (MIET) in the College of Engineering, Technology, and Computer Science serves the needs of students, industry, and government in northeast Indiana.

The department offers Associate of Science (A.S.) and Bachelor of Science (B.S.) degree programs in industrial engineering technology (IET) and mechanical engineering technology (MET). The programs in IET and MET (both A.S. and B.S.) are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology Inc. (TAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, 410-347-7700. The department also offers a certificate in quality.

The primary focus of the department is the development of its students. It encourages students to acquire the knowledge and understanding that helps them contribute to society by leading meaningful and productive lives.

The major thrust of the department is to prepare graduates to understand basic concepts of knowledge, have studied one technical field in sufficient depth to appreciate its methodologies and fundamental unresolved questions, and have acquired a basis for lifelong learning. Attainment of the above is accomplished through the establishment of required courses in 1) a core of general education, 2) required technical courses in the major area, and 3) elective courses combining breadth of subject matter with specific study in depth. Laboratory experience is an essential part of both associate and bachelor degree programs.

Mission

The mission of the Department of Mechanical and Industrial Engineering Technology is to offer quality mechanical and industrial undergraduate engineering technology programs that meet regional needs; to advance and share technical knowledge with students and industry, through teaching, service, and research; and to support the missions and goals of the college and university.

Division of Continuing Studies

Kettler Hall 145 ~ 260-481-6828 ~ www.ipfw.edu/dcs

The mission of the Division of Continuing Studies is to provide high-quality lifelong learning opportunities for the residents of northeast Indiana.

Course work from this division is offered for academic credit, corporate training, and personal and professional development. For the convenience of students and employers, programs are organized on and off campus and include distance learning via Internet, television, and videotape/DVD.

The academic programs in the Division of Continuing Studies are listed below. Requirements for these programs appear in Part 4 of this *Bulletin*.

Subject

Program

General Studies
General Studies

Associate of Arts in General Studies (A.A.G.S.)
Bachelor of General Studies (B.G.S.)

Division of Labor Studies

Kettler Hall G28 ~ 260-481-6831

Through the Division of Labor Studies, Indiana University offers a Certificate in Labor Studies, a minor in labor studies, an Associate of Science in Labor Studies, and a Bachelor of Science in Labor Studies. Each combines work in a core of labor studies subjects with courses in other disciplines.

As a discipline, labor studies deals with work, the workplace, and workers and their organizations. It advances a body of knowledge that reflects the concerns of modern labor organizations.

As a program, labor studies enables participants to serve more effectively as members and leaders in their organizations. Participants can also gain a sense of the past and present contexts of work and unionism. Because union leaders need to be familiar with economics, communications, and other subjects, labor studies can assist them in mastering a broad range of learning.

The program encourages participants to make socially useful choices in carrying out the many responsibilities of union membership, union leadership, and community citizenship.

The Division of Labor Studies reports to IUPUI administration under the direction of Vice President for Long-Range Planning and IUPUI Chancellor Charles R. Bantz.

Each labor-studies program enhances the knowledge and skills of those active in organized labor. Completion of a program enhances your ability to apply knowledge and skills in unions, government agencies, or educational institutions.

Admission For admission to any of these programs, you must apply directly to the labor-studies office.

General Program Requirements Both of the following degrees and the certificate in labor studies require satisfactory completion of 15 credits from among the Labor Studies Core and additional credits from among three Required Areas of Learning (see listings below). Courses in which you earn a grade of D will count only as electives.

Division of Organizational Leadership and Supervision

Neff Hall 288 ~ 260-481-6420 ~ www.ipfw.edu/ols/

The mission of the Division of Organizational Leadership and Supervision (OLS) is to integrate theory and practical application in developing leaders for roles in the dynamic organizational environment of the 21st century. This goal is accomplished through an interdisciplinary curriculum that emphasizes an understanding of people, groups, and the global community within an organizational framework.

OLS combines the study of leadership with a career concentration. The program focuses on understanding and working with people within organizations and the practical application of leadership concepts and theories. Students' creativity and competence in the administration of human resource systems, team design and facilitation, and the influencing processes that define leadership are developed through this program.

The division offers the following academic programs, which are described in Part 4 of this *Bulletin*.

Subject

Organizational Leadership and Supervision
Supervisory Leadership

Program

A.S., B.S., and Minor
Certificate

Division of Public and Environmental Affairs

Neff Hall 260 ~ 260-481-6351 ~ www.ipfw.edu/spea/

The Division of Public and Environmental Affairs is a multidisciplinary division of the Indiana University School of Public and Environmental Affairs (SPEA). SPEA is organized as a professional school, committed to teaching, research, and service. SPEA at IPFW offers a Bachelor of Science program that provides a sound general education combined with specialized study. Additionally, SPEA offers minors in criminal justice and public affairs. SPEA's multidisciplinary faculty and curriculum address environmental, health, public policy, and management issues from a variety of perspectives.

The academic programs in the division are listed below. Requirements for these programs appear in Part 4 of this *Bulletin*.

Subject

Criminal Justice
Public Affairs
Public Affairs: Criminal Justice
Public Affairs: Environmental Policy
Public Affairs: Health Services Administration
Public Affairs: Legal Studies
Public Affairs: Public Management
Public Affairs: Specialized Study
Risk and Emergency Management

Program

Minor
Minor
B.S.P.A.
B.S.P.A.
B.S.P.A.
B.S.P.A.
B.S.P.A.
B.S.P.A.
Certificate

Admission

Admission to SPEA requires sophomore standing and a minimum cumulative grade-point average of 2.30, and completion of ENG W131, the required mathematics and computer science course(s), and the specific SPEA core course for the major. However, you may enter into the school as a pre-SPEA student as early as your freshman year. You must be in good academic standing (cumulative GPA of 2.00 or higher, core/concentration/major GPA of 2.30 or higher) to qualify for an internship and to graduate.

Special Academic Regulation for Students in Public and Environmental Affairs

Requirements for the undergraduate degree should be completed within 10 years of admission to SPEA. You may transfer no more than 88 credit hours (60 credits from a junior college) toward a Bachelor of Science. A maximum of 10 credits will be awarded on the basis of military training toward any degree from SPEA. With prior approval, you may take three courses totaling no more than 10 credit hours by correspondence through the IU Division of Extended Studies, Independent Study Program. However, you cannot satisfy a core, concentration, or major requirement by correspondence.

Good Standing in SPEA requires that you maintain a minimum semester and cumulative GPA of 2.00 and a minimum core/concentration GPA of 2.30. Therefore, you will be placed on academic probation if your semester, cumulative, or core/concentration GPA at the end of any regular semester is lower than these minimum standards. Once on probation, you may be dismissed from SPEA if you fail to make significant progress toward good standing or if you fail to meet the minimum IPFW standards listed in Part 7 of this Bulletin.

SPEA Internships

As a SPEA major, you may earn a maximum of 12 hours of elective credit during your junior and senior years through the SPEA internship program, if you are in good standing and have obtained prior SPEA faculty approval. Internships are strongly encouraged because they give you the opportunity to apply classroom theory and techniques to the real world and to network with professionals in your career field. The program is designed for maximum flexibility so that many valid learning experiences can qualify as internships. Internships can be full or part time, paid or unpaid, credit or noncredit. Interested students should contact their academic advisor at the SPEA office for further information about internships.

Special Opportunities for Students in Public and Environmental Affairs

The School of Public and Environmental Affairs offers opportunities to study in Washington, D.C., through the Washington Leadership Program, as well as opportunities to study abroad through programs in The Netherlands and Australia. You should contact the SPEA office for current information about these programs.

The Accelerated Master's Program (AMP) is a competitive program for outstanding undergraduate SPEA students. If you have a GPA of 3.50 or higher, you may apply to the Master of Public Affairs (M.P.A.) program early in your junior year. This program allows you to fulfill up to 24 credit hours toward the M.P.A. or 18 credit hours toward the M.P.M. by taking graduate-level SPEA courses during your senior year that count toward both your undergraduate and graduate degree programs.

Office of Academic Affairs

Richard T. Doermer School of Business and Management Sciences

Neff Hall 366 ~ 260-481-6472 ~ www.ipfw.edu/bms/

Note:

The Richard T. Doermer School of Business and Management Sciences is in the process of continual curriculum assessment and revision. Specific courses, programs, and degree requirements may change substantially during the life of a printed medium such as this *Bulletin*. You should consult your advisor about possible changes and opportunities.

General Information

The mission of the Richard T. Doermer School of Business and Management Sciences is to prepare students, primarily from northeast Indiana, for professional business careers of increasing responsibility and leadership in a global society.

To accomplish this mission, the role of the school's faculty, as a scholarly community, is

- to develop and deliver high-quality instruction
- to maintain a strong commitment to applied scholarship, with a secondary emphasis on instructional development and basic scholarship, all appearing in media of quality, and
- to share its scholarly expertise with the business community, the profession, and other constituents.

The mission reflects a continuing commitment to the importance of learning in a changing environment, supported through the interdependence of teaching, intellectual contributions, and service.

Academic Programs

The academic programs in the school are listed below. Requirements for these programs appear in Part 4 of this *Bulletin*.

<i>Subject</i>	<i>Program</i>
Accounting	Post-Baccalaureate Certificate
Business	Bachelor of Science (B.S.B.)
Business	Associate of Science (A.S.B.)
Business Studies	Minor

SBMS Undergraduate Student Affairs Center

SBMS Undergraduate Student Affairs Center Richard T. Doermer School of Business and Management Sciences

Neff Hall 366 ~ 260-481-6472 ~ www.ipfw.edu/bms

Special Academic Regulations for P.B.A. Students

Performance Standards With the exception of the minimum GPA for retention, P.B.A. students are held to the performance standards specified for students in undergraduate business programs. See Business later in this part of the Bulletin.

Course Waivers

You may be eligible for waivers of course requirements based upon academic courses taken as part of your bachelor's program if those courses were completed within the past five calendar years.

Special Academic Regulations for Students in Undergraduate Business Programs

Following are the general policies and procedures for students enrolled in business undergraduate programs. In addition to the policies of IPFW (see Part 7), these are intended to maintain the historically high academic standards of undergraduate business programs at IPFW.

Regulations Applying to All Business Undergraduates

The Student's Responsibility.

You are responsible for satisfying the graduation requirements specified for your selected program. Thus, it is essential that you develop a thorough understanding of the required courses, academic policies, and procedures governing your academic career. All requests for exceptions to specific requirements must be made in writing and may be granted only by written approval from the appropriate chair or dean.

Academic Renewal Option.

The school participates in the Academic Renewal Option for eligible students returning to IPFW after an absence of five or more years. Information about this option appears in Part 7 of this Bulletin.

Maximum Enrollment.

The maximum number of credits for which you may enroll during a regular semester is 21. If you wish to enroll for more than 17 credits during a regular semester or more than 6 during a summer session, you must (1) have attained at least sophomore standing and (b) have earned a cumulative GPA of 3.00 or higher. If you qualify and desire to enroll for more than 17 credits during a semester, you must have your status verified and your request approved by your advisor.

Overlapping Courses.

You may not count toward graduation any courses or sequences considered to have overlapping content. A list of overlapping courses appears in Part 3 of this Bulletin under the School of Arts and Sciences.

Pass/Not-Pass Grades.

This option is available only for courses considered to be elective. You may take up to two courses each semester for a grade of P/NP with a maximum of two such courses each academic year (fall, spring, and summer). You may apply a maximum of 12 credits of pass/not-pass grades toward a bachelor's degree or a maximum of 6 credits toward an associate degree.

Credit by Self-Acquired Competency.

IPFW business programs do not award credit for self-acquired competency (experiential credit). Credit awarded on this basis, regardless of its sources, will not apply toward IPFW business degrees.

Academic Probation.

You are on academic probation upon completion of a semester or summer session in which you fail to earn a semester GPA of 2.00 or higher. Your university grade report will serve as notification of your probationary status.

Academic Dismissal.

You are dismissed from the degree program immediately upon completion of a semester or summer session that results in your cumulative GPA falling below 2.00. Dismissal will not necessarily be preceded by a formal warning, especially if your prior academic work does not indicate a critical situation. Upon verification of your ineligible status, you will be formally notified and given an adequate amount of time to withdraw from any classes for which you are ineligible. Following that, you will be administratively dropped from the specified class(es).

Application for the Degree.

At least two weeks before you register for the semester or summer session during which you will complete all requirements for your program, you must inform the school of your intention to graduate. Degree application forms and related instructions are available at the school's Undergraduate Student Affairs Center, Neff 366. Unless you have submitted a degree application by this deadline, your records will not be audited for graduation and you cannot register as a degree candidate.

Additional Regulation Applying to Undergraduates in the A.S.B. Program

Time Limit for Completion of A.S.B.

It is the school's intention that you possess the most current knowledge and skills when you complete the A.S.B. Because of this, you are allowed a maximum of eight regular semesters (four calendar years) to complete this degree. This begins with the semester you are regularly admitted to IPFW. If more than eight regular semesters have elapsed since your admission, you will be required to meet the degree requirements specified in the most current IPFW Bulletin.

Additional Regulations Applying to Undergraduates in the B.S.B. Program

Transfer Credit.

If you transfer from another school to IPFW, you will be granted credit toward a business degree only for courses considered to be equivalent to IPFW courses required in the business programs.

Generally, courses in basic business and economics subjects (freshman- and sophomore-level courses) will be accepted as equivalent only if they are being transferred from regionally accredited institutions.

Courses in advanced business and economics subjects that you have taken at another school during your freshman or sophomore years generally will not be accepted as equivalent to business or economics courses that are available to only juniors and seniors at IPFW. These may be used only as elective credit.

Courses in advanced business and economics subjects that you have taken as a junior or senior within the last four calendar years will be considered equivalent only if the business degree program from which they transfer is accredited by the International Association for Management Education (AACSB).

Requests for equivalency validation of 300/400-level business and economics courses will be considered only after you have been formally admitted to the B.S.B. program and you have provided the SBMS Student Affairs Center (Neff 366) with an official copy of your Indiana University credit-transfer report. Forms for requesting transfer-course equivalency are available at this location.

At least 50 percent of required business and economics credits must be completed at IPFW.

Correspondence Study.

No more than 6 credits earned through correspondence study will be counted toward your undergraduate degree. Business or economics courses taken by correspondence will not apply to undergraduate business degrees. You will not be permitted to enroll for credit in a correspondence-study course during any semester in which you are enrolled for 15 or more credits.

Credit by Examination.

Under very limited circumstances and subject to the following policies, you may be permitted to earn credit by means of a special examination:

1. Credit examinations are not provided for business or economics courses numbered 300 and above.
2. In all cases, your eligibility for a credit examination (for business courses numbered below 300); the type of examination; testing procedures, date, time, and location; and evaluation of your performance are the decision of the appropriate IPFW business or economics department. The decision of the department is final.
3. Credits earned by examination cannot exceed 10 percent of your total degree requirements.
4. You may attempt an authorized credit examination only once.

5. Only those examination scores that equate to a C grade or better will be considered. Only the grade S will be reported for credit earned by examination.

Use of Physical Education Credits.

You may use a maximum of 4 credits of physical education (HPER) courses as elective credits. Grades earned are included in your cumulative GPA.

Time Limit.

To ensure that you will be professionally competitive with other members of your graduating class, you may complete the degree requirements specified in the Bulletin in effect at the time you were formally admitted to the degree program only if

1. Progress toward your degree objective has been continuous. If you have not registered for degree-applicable courses as an IPFW business major for a period of one calendar year, you will be considered as not progressing toward your original degree objective. Subsequently, if you qualify for re-entry to an undergraduate business program at IPFW, you must satisfy the admission and degree requirements specified in the IPFW Bulletin that includes your year of re-entry.
2. No more than four years have elapsed since your admission to the business degree program. If more than four years have elapsed, your cumulative academic record will be reviewed by the appropriate business or economics department, and you will be required to meet the degree criteria specified in the current IPFW Bulletin. This may result in your having to repeat those courses in which the original content is determined to be outdated.
3. The necessary courses or degree programs are available. If the courses that were required at the time of your formal admission to the business degree program are no longer available, you must complete the current replacements for those courses. Should these newer courses require prerequisites you have not taken, you must also enroll for these prerequisites in the appropriate sequence.

Arts and Science Minors.

B.S.B. candidates are encouraged to complete the requirements for minors available through the IPFW School of Arts and Sciences (see Part 3). Completion of your minor will be documented on your official transcript. No more than two minors will be shown.

School of Arts and Sciences

Classroom-Medical Building 153 ~ 260-481-6160 ~ www.ipfw.edu/as/

The School of Arts and Sciences offers programs and courses in the traditional liberal arts disciplines. In addition to providing students with opportunities to develop skills required for the workplace or for advanced study, it seeks to foster well-rounded development of the individual. The school recognizes the role of nontraditional students at IPFW and makes special efforts to meet their needs.

Graduates of the school's baccalaureate programs should have knowledge and awareness enabling them to be effective citizens and lifelong learners. They are expected to have a working understanding of the knowledge and methodology appropriate for their discipline and should be aware of the major issues in their field and able to communicate field content effectively.

The school's Associate of Arts program with 10 concentration areas serves as an intermediate step toward completion of a baccalaureate degree. The chemical methods Associate of Science program, on the other hand, serves students who are preparing for a career as a chemical technician and is not recommended for students who wish to pursue a bachelor's program.

The service and research missions of the school are those appropriate to a comprehensive regional university. The school is responsible for basic-skills courses in mathematics and oral and written communication, as well as the majority of the courses fulfilling school and IPFW general-education requirements. Faculty engage in research or creative endeavor linked to their teaching as well as to IPFW's role as the regional center for higher education. Through research, faculty maintain their qualifications as teachers and, in their contribution to knowledge in their disciplines, enhance the reputation of the campus.

Through research and service, the school seeks to make itself a vital resource for business, industry, public and private education, the arts, and government in northeast Indiana.

Academic Programs

The School of Arts and Sciences offers a broad range of minors, transfer programs, and interdisciplinary certificate programs. Each program with its sponsoring unit in the school is listed below for each degree. If you are undecided about a major within the school, you should, with the help of your advisor, choose courses carefully to assure reasonable progress as you narrow your choices and finally decide on a specific plan of study. If you change your major within the school, your degree requirements and your university affiliation may also change.

All bachelor's degrees require a major of at least 24 credits in courses specified by the major department. Minors include (a) a minimum of 12 credits with at least 8 credits at the 200 level or above; (b) at least half the credits taken as resident credits; and (c) a grade of C or better in each course.

Associate of Arts

An Associate of Arts (A.A.) is available with a choice of 10 concentrations. You can generally apply all credits earned in the A.A. program toward a bachelor's degree with a major in the A.A. concentration area.

Concentration

Biology
English
French
German
History
Mathematics
Political Science
Psychology
Spanish
Women's Studies

Department

Biology
English and Linguistics
International Language and Culture Studies
International Language and Culture Studies
History
Mathematical Sciences
Political Science
Psychology
International Language and Culture Studies
Women's Studies

Associate of Science

Concentration

Chemical Methods

Department

Chemistry

Bachelor of Arts

Major

Anthropology
Computer Science

Department

Sociology and Anthropology
Mathematical Sciences

Economics
 English
 French
 Geology
 German
 History
 Interpersonal and Organizational Communication
 Media and Public Communication
 Philosophy
 Political Science
 Psychology
 Sociology
 Spanish
 Women's Studies

Arts and Sciences
 English and Linguistics
 International Language and Culture Studies
 Geosciences
 International Language and Culture Studies
 History
 Communication
 Communication
 Philosophy
 Political Science
 Psychology
 Sociology and Anthropology
 International Language and Culture Studies
 Women's Studies

Bachelor of Science

Major

Biology
 Biology Teaching Chemistry, B.S.
 Chemistry, B.S.C.
 Chemistry Teaching
 Geology
 Mathematics
 Mathematics Teaching
 Medical Technology
 Physics
 Physics Teaching
 Speech and Hearing Therapy

Department

Biology
 Biology
 Chemistry
 Chemistry
 Geosciences
 Mathematical Sciences
 Mathematical Sciences
 Biology
 Physics
 Physics
 Audiology and Speech Sciences

Minors

Minor

Anthropology
 Applied Ethics
 Biology
 Chemistry
 Communication Studies
 Creative Writing
 Economics
 English
 Film and Media Studies
 Folklore
 French
 Geology
 German

Department

Sociology and Anthropology
 Philosophy
 Biology
 Chemistry
 Communication
 English and Linguistics
 Arts and Sciences
 English and Linguistics
 Arts and Sciences
 English and Linguistics
 International Language and Culture Studies
 Geosciences
 International Language and Culture Studies

History
Journalism
Linguistics
Mathematics
Media Production
Philosophy
Physics
Political Science
Professional Writing
Psychology
Public Relations
Religious Studies
Sociology
Spanish
Women's Studies

History
Arts and Sciences
English and Linguistics
Mathematical Sciences
Communication
Philosophy
Physics
Political Science
English and Linguistics
Psychology
Arts and Sciences
Philosophy
Sociology and Anthropology
International Language and Culture Studies
Women's Studies

Certificates

Subject

American Studies
Ethnic and Cultural Studies
Gerontology
International Studies
Native American Studies
Peace and Conflict Studies
Teaching English as a New Language
Women's Studies

Department

Arts and Sciences
Arts and Sciences
Arts and Sciences
Arts and Sciences
Arts and Sciences
Arts and Sciences
English and Linguistics
Arts and Sciences

Research Certificates

Anthropology
Biology
Chemistry
Mathematical Sciences
Physics
Psychology

Arts and Sciences
Arts and Sciences
Arts and Sciences
Arts and Sciences
Arts and Sciences
Arts and Sciences

Transfer Programs

The school's transfer programs in agriculture, journalism, forestry and natural resources, prepharmacy, and preveterinary studies are described in Part 4 of the Bulletin. You may also complete at IPFW one or two years of work toward many bachelor's degrees offered by the College of Arts and Sciences at Indiana University Bloomington and by the School of Liberal Arts and the School of Science at Purdue University West Lafayette. If you are planning to complete your degree at another campus, make this interest known the first time you see your IPFW academic advisor.

Preprofessional Programs

The school provides academic advising and programs for students who wish to prepare to compete for admission to professional schools at one of the public universities in the state or at other institutions. In the list below, the years refer to full-time study, 30 to 32 credits per academic year:

<i>Program</i>	<i>Years</i>	<i>University</i>
Predentistry*	3–4	Indiana
Pre-law	4	Indiana
Premedicine*	3–4	Indiana

<i>Program</i>	<i>Years</i>	<i>University</i>
Pre-optometry*	3–4	Indiana
Prepharmacy 2	2	Purdue
Preveterinary Medicine	2	Purdue

*Although some schools offer early admission to highly qualified students who have completed 90 credits, most applicants have completed a bachelor's degree. If you think you may qualify for early admission, you should consult your advisor about completing requirements for the bachelor's degree from the School of Arts and Sciences during the first year of professional school.

Academic advising for prepharmacy students is provided in the school office; for predental, premedical, pre-optometry, and preveterinary students in the Department of Biology; and for prelaw students in the Department of Political Science. If you are not majoring in the department that provides this advising, you should consult the appropriate preprofessional advisor before you see your department advisor to select your courses.

The Science and Engineering Research Semester (SERS)

Students majoring in natural sciences, mathematics, or computer science are encouraged to consider participating in the Science and Engineering Research Semester sponsored by the U.S. Department of Energy. If you are admitted to the program, you spend a fall or spring semester at one of six national laboratories conducting research under the mentorship of a staff scientist or engineer. The laboratories include Argonne in Illinois, Brookhaven in New York, Lawrence Berkeley in California, Los Alamos in New Mexico, Oak Ridge in Tennessee, and Pacific Northwest in Washington state. In addition to being directly involved in research, you also may enroll in one academic course during this semester. Credit for research and course work is determined in consultation with your academic advisor, the department chair, and the SERS campus advisor. Students accepted into the program receive a stipend, housing, and limited travel reimbursement. Inquiries should be initiated at least seven months prior to the anticipated starting date. You should begin planning in your freshman year to reserve time for this opportunity. Eligibility requirements include U.S. citizenship or permanent resident alien status, completion of the sophomore year, and a GPA of 3.00 or higher. For further information, contact the School of Arts and Sciences or the College of Engineering, Technology and Computer Science.

Cooperative Education (Co-Op) Program

Cooperative education provides an opportunity for you to work in an occupation related to your major. In this program, you may alternate between full-time study and full-time employment. Students normally enter the program at the end of their first year or upon completion of the summer session immediately following the first year. Check with your advisor regarding department requirements for eligibility for this program.

Research Certificate

The research certificate provides opportunities for you to engage in active learning opportunities integrating original research and the undergraduate curricula by learning research methods and tools appropriate to your discipline and your research interests within the discipline; by learning the foundations of research in the history, philosophy, and theory of the discipline; by learning advanced communications skills; and by applying these learnings by designing and executing a research study or project and communicating the results to others.

Degree Requirements and Academic Regulations for Students in the School of Arts and Sciences

In addition to the academic regulations of IPFW (see Part 7), the following rules apply to you. Where school regulations are stricter than IPFW regulations, the school regulations apply.

For each of the concentrations for the Associate of Arts, the requirements encompass approximately the first half of the bachelor's degree program offered by the sponsoring department. See Part 4 for complete requirements for related bachelor's degrees.

Requirements for the Associate of Arts

Credits in IPFW General Education Area I:(9)

- *COM 114 Fundamentals of Speech Communication*
- *ENG W131 Elementary Composition I (or equivalent), with a grade of C or higher*
- Quantitative Reasoning course (except MA 101), with a grade of C or higher
- Credits in IPFW General Education Area II, including one science course with a scheduled laboratory Credits: 6
- Credits in IPFW General Education Area III Credits: 6
- Credits in IPFW General Education Area IV Credits: 6
- Credits in the first year of a foreign language Credits: 8
- Credits in a concentration with a grade of C or higher in each course (see below) Credits: 15–21
- Additional credits in approved elective courses Credits: 4–12

Total with a graduation GPA of at least 2.00 (60–63)

Requirements for Associate of Science

Requirements for the Associate of Science in chemical methods appear in Part 4 of this Bulletin.

Requirements for Bachelor of Arts

In addition to Areas I through VI of the IPFW General Education program and the requirements for your major, you must satisfy the following school requirements:

1. Parts A through D listed below
2. At least 30 credits in upper-level courses as defined by the departments offering the courses (excluding military science courses).
3. A grade of C or better for all courses counted in the major. At most, one approved course in the major discipline may also count toward IPFW General Education Area II–V requirements. No course in the major discipline may count in Area VI.

4. The IPFW General Education Area I computer literacy requirement for the School of Arts and Sciences is met by completing COM 114, ENG W131, and one additional course selected from the following: CS 106, CS 107, CS 160, MA 149, MA 151, MA 153, MA 154, MA 163, MA 164, MA 165, MA 166, MA 168, MA 229, MA 230, STAT 125, or an approved departmentally specified course, or completion of STEPS (or successor program).
5. A sufficient number of elective credits to bring the total for graduation to 124.

Part A: English Writing

You must complete ENG W233 or an equivalent second writing course approved for this purpose by the school. Approved equivalents are ENG L202, FREN W300, GER W300, HIST H217, POLS Y205, SOC S260, and SPAN W300. You must complete both ENG W131 (or equivalent) and your second writing course with a grade of C or better.

Part B: Foreign Language

You must complete the last two courses in one of the sequences listed below (or demonstrate equivalent proficiency). Courses are offered in French, German, and Spanish. You are urged to begin studying a language as soon as possible. For advanced placement and special credit in foreign language, see the additional information for the bachelor's degree.

- FREN F111–F112–F203–F204
- GER G111–G112–G203–G204
- SPAN S111–S112–S203–S204

Part C: Distribution

In addition to the courses used to satisfy part A and B above, you must complete 3 credits in each of the following areas. No credits in your major discipline or in directed study courses may be used to satisfy this requirement.

1. Science and Mathematics. You must complete at least one science course with a scheduled laboratory, and you must also complete with a grade of C or better one mathematics course at the MA 153 level or above, or any other course in the Quantitative Reasoning section of the IPFW General Education requirements except MA 101. If the science and mathematics courses you completed for the IPFW General Education requirements satisfy this requirement, you may select the remaining required course from any of the following disciplines:

Agriculture (FNR 103 only)
Anthropology (ANTH B200 only)
Astronomy
Biology (excluding BIOL 105)
Chemistry
Entomology
Geography (physical geography only)
Geology
Mathematics (excluding MA 101, 102, and 103)
Physics
Political Science (POLS Y395 only)
Sociology (SOC S351 only)
Statistics

2. Social and Behavioral Sciences. Courses from the following disciplines satisfy this requirement:

Anthropology (excluding ANTH B200)
Audiology and Speech Sciences

Communication (excluding COM 114, 210, 240, 312, and 316)
Economics
English (ENG G205, G206, and G301 only)
Geography (human, cultural, or social geography only)
Gerontology (GERN G231 only)
International Studies (INTL I200 only)
Journalism (JOUR C200, C300, and J300 only)
Linguistics
Political Science (excluding POLS Y395)
Psychology
Sociology (excluding SOC S351)
Spanish* (SPAN S425, S426, and S428 only)
Women's studies (WOST W210 and W240 only)

3. Humanities. Courses from the following disciplines satisfy this requirement:

Afro-American studies
American studies
Architectural Engineering Technology (ARET 210 and 310 only)
Chinese*
Classical studies
Communication (COM 210, 216, 240, 312, and 316 only)
Comparative literature
English (except ENG G205, G206, G301, P131, W130, W131, W135, W140, W232, W233, W234, W321, W331, W398, and W421)
Film studies
Fine arts (excluding studio courses)
Folklore
French*
German*
History
Journalism (excluding JOUR C200, C300, and J300)
Latin American studies
Music (excluding performance/skills courses)
Philosophy
Religion
Russian*
Spanish* (except SPAN S425, S426, and S428)
Theatre (excluding performance/production courses)
Women's studies (excluding WOST W210 and W240)

*excluding courses used to satisfy the Part B requirement

Part D: Cultural Studies

You must complete two approved courses. Courses used to meet the IPFW General Education requirements or the requirements of Part C may also be used to fulfill Part D requirements; however, the credits for those courses count only once toward graduation.

1. Western Tradition. You must complete one of the following 3-credit courses dealing broadly with the Western tradition:

CLAS C205, C405
COM 312

ENG L101, L102
FINA H111, H112
HIST H113, H114
PHIL 110, 112, 240, 301, 331
POLS Y105, Y381, Y382

2. Non-Western Culture. You must complete one of the following 3-credit courses dealing exclusively or primarily with a non-Western culture or cultures:

ANTH E320, E321, E330, E335, E340, E341, E345, E401, E405, E420, E445, E455, E462, E470, P360, P370
CMLT C461
ENG L107, L113, L364, L387
FINA H415
FOLK F305, F352
HIST A310–A311, C393, D410, E331, E332, E431, F341, F342, F346, F432, G451, G452, H201, H202, H203, H204, H232, T335
PHIL 330
POLS Y339, Y340
REL 301
SPAN S246, S412, S471, S472, S477, S479, S480
WOST W301

Requirements for Bachelor of Science

In addition to Areas I through VI of the IPFW General Education program and the requirements for your major, you must satisfy the following school requirements:

1. Parts A and B listed below
2. At least 30 credits in upper-level courses as defined by the departments offering the courses (excluding military science courses)
3. A GPA of 2.00 or higher for all courses in the major department. At most, one approved course in the major discipline may also count toward satisfying IPFW General Education Area II–V requirements.
4. The IPFW General Education Area I computer literacy requirement for the School of Arts and Sciences is met by completing COM 114, ENG W131, and one additional course selected from the following: CS 106, CS 160, MA 149, MA 151, MA 153, MA 154, MA 163, MA 164, MA 165, MA 166, MA 168, MA 229, MA 230, STAT 125, or an approved departmentally specified course, or completion of STEPS (or successor program).
5. A sufficient number of elective credits to bring the total for graduation to 124.

Part A: English Writing

You must complete ENG W233 or an equivalent second writing course approved for this purpose by the School of Arts and Sciences. Approved equivalents are ENG L202, FREN W300, GER W300, HIST H217, POLS Y205, SOC S260, or SPAN W300. You must complete both ENG W131 (or equivalent) and your second writing course with a grade of C or better.

Part B: Foreign Language

You must complete two courses at the first-year level (or demonstrate equivalent proficiency) in one language. Students in a teaching program are exempt from the foreign-language requirement. You are urged to begin studying a language as soon as possible. For advanced placement and special credit in foreign language, see the additional information for bachelor's degrees, below.

Additional Information for Bachelor's Degrees

Along with the IPFW academic regulations (see part 7), the following information applies to all bachelor's degree programs:

1. Special Credit for Foreign Language.

When you begin your foreign language study at the second-semester (113) level or higher, you are eligible to apply for special credit after you successfully complete the course into which you placed. You may receive up to 14 credits of special credit for the courses you skipped.

2. Undistributed Transfer Credit.

Undistributed transfer credit (for courses not equivalent to IPFW courses) may be used to satisfy General Education requirements, distribution requirements, and may be counted in the major. You should contact the school office to confirm the application to your program of any undistributed transfer credit you are awarded.

3. Credit Restrictions.

The following restrictions apply to all Arts and Sciences degrees:

- a. You may count no more than 4 credits in:
HPER activities
- b. You may count no more than 3 credits in:
IDIS courses ENG W135 MA 149, and only by those departments that allow graduation credit for MA 153
- c. You may count no credit in:
Developmental courses such as CHM 100; EDUC X15x; ENG R15x, W11x, and W130; and MA 109, 111, and 113.

Courses that provide only surveys of career opportunities, such as AGR 101, CNT 101, EDUA F300 (except when offered as Invitation to Teaching) and G250, EDUC X210, ENGR 101, HSRV 100 (1 cr.), HTM 100, IDIS 105, MHT 100 (1 cr.), NUR 101, RHIT 100, SPEA V352, and VM 102.

Courses designed to provide a skill not required to complete the major, such as AHLT Mxxx, AHSP Mxxx; BUFW C124, C125, C293, and X221; BUS K214; DAST Axxx; DHYG Hxxx; OLS 121; and SPV 379 and 399.

Courses offered by the former Indiana Division of General and Technical Studies (DGTS).

4. Credit for Military Service.

Credit for military service in the armed forces of the United States will not be counted toward graduation.

5. Overlapping Content.

You may not count toward graduation any courses or sequences considered to have overlapping content. Such courses are listed below; check this list before registering. This list may not be exhaustive. Please consult with your advisor. If you enroll in a course that appears in the left column, and you have completed any of the courses that are listed to its right, only the most recently completed course will apply toward graduation.

Courses with Overlapping Content

AHSP M195	BIOL 105
BIOL 100	BIOL 108–109 or 117–119 or 121/122–133/134 or 250
BIOL 105	AHSP M195
BIOL 108–109	BIOL 100 or 117–119 or 121/122–133/134 or 250
BIOL 117–119	BIOL 100 or 108–109 or 121/122–133/134 or 250
BIOL 121/122–133/134	BIOL 100 or 108–109 or 117–119 or 250
BIOL 203–204	BIOL 215–216
BIOL 215–216	BIOL 203–204
BIOL 218	BIOL 241–242
BIOL 220	BIOL 221 or 438–439 or 437
BIOL 221	BIOL 220 or 438–439 or 437
BIOL 233–234	BIOL 381–382
BIOL 241–242	BIOL 218
BIOL 250	BIOL 100 or 108/109 or 117–119 or 121/122–133/134
BIOL 317	PSY 317
BIOL 381–382	BIOL 233–234
BIOL 437	BIOL 220 or 221 or 438–439
BIOL 438–439	BIOL 220 or 221 or 437
BUS K200–K211–K212	CS 106
CHM 101–102	CHM 104 or 111–112 or 115–116 or 129 or 151
CHM 104	CHM 101–102 or 111–112 or 115–116 or 129 or 151
CHM 111–112	CHM 104 or 101–102 or 115–116 or 129 or 151
CHM 115–116	CHM 104 or 101–102 or 111–112 or 129 or 151
CHM 129	CHM 104 or 101–102 or 111–112 or 115–116 or 151
CHM 151	CHM 104 or 101–102 or 111–112 or 115–116 or 129
CHM 224	CHM 321
CHM 251	CHM 255–256 or 261–262
CHM 252	CHM 254–258 or 263–264 or 265–266
CHM 254–258	CHM 252 or 263–264 or 265–266
CHM 255–256	CHM 251 or 261–262
CHM 261–262	CHM 251 or 255–256
CHM 263–264	CHM 252 or 254–258 or 265–266
CHM 265–266	CHM 252 or 254–258 or 263–264
CHM 321	CHM 224
CHM 371	CHM 373–374 or 383–384
CHM 383–384	CHM 371 or 373–374
COM 250	JOUR C200
COM 352	JOUR J300
CS 106	BUS K200–K211–K212
ECON E200	ECON E201
ECON E201	ECON E200
ECON E270	POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 260 or 301 or 303 or 307 or 511
EE 302	STAT 311 or 516
ENG L220	ENG L315
ENG L315	ENG L220
ENG L374	ENG L379
ENG L379	ENG L374
ENG W131	ENG W135
ENG W135	ENG W131
	ENG W233
	ENG W140

ENG W140	MUS Z201
ENG W233	GEOL G103 or S100
FOLK F254	GEOL G100 or S100
GEOL G100	GEOL G100 or G103
GEOL G103	HIST A345–A346
GEOL S100	HIST A316
HIST A316	HIST E431
HIST A345-A346	HIST E432
HIST E331	IDIS G102 or G103 or G104
HIST E332	IDIS 110 or G103 or G104
IDIS 110	IDIS 110 or G102 or G104
IDIS G102	IDIS 110 or G102 or G103
IDIS G103	COM 250
IDIS G104	COM 352
JOUR C200	MA 153
JOUR J300	MA 151 or 153–154 or 159
MA 149	MA 150 or 153–154 or 159
MA 150	MA 149
MA 151	MA 150 or 151 or 159
MA 153	MA 150 or 151 or 153–154
MA 153–154	MA 165–166 or 227–228 or 229–230
MA 159	MA 163–164 or 227–228 or 229–230
MA 163–164	MA 213–215
MA 165–166	MA 175 or 215
MA 175	MA 175
MA 213	MA 163–164 or 165–166 or 229–230
MA 213–215	MA 163–164 or 165–166 or 227–228
MA 227–228	MA 263
MA 229–230	MA 321 or 363
MA 261	MA 261
MA 262	MA 262 or 363
MA 263	MA 262 or 321
MA 321	FOLK F254
MA 363	PHYS 152–251 or 201–202 or 218–219 or 220–221
MUS Z201	PHYS 131–132 or 201–202 or 218–219 or 220–221
PHYS 131–132	PHYS 131–132 or 152–251 or 218–219 or 220–221
PHYS 152–251	PHYS 131–132 or 152–251 or 201–202 or 220–221
PHYS 201–202	PHYS 131–132 or 152–251 or 201–202 or 218–219
PHYS 218–219	PHYS 251 or 261
PHYS 220–221	PHYS 241 or 261
PHYS 241	PHYS 241 or 251
PHYS 251	ECON E270 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 260 or 301 or 303 or 307 or
PHYS 261	511
POLS Y395	PSY 416
PSY 200	ECON E270 or POLS Y395 or SOC S351 or SPEA K300 or STAT 240 or 260 or 301 or 303 or 307 or
PSY 201	511
PSY 235	PSY 369
PSY 317	BIOL 317
PSY 369	PSY 235
PSY 416	PSY 200
SOC S351	ECON E270 or POLS Y395 or PSY 201 or SPEA K300 or STAT 240 or 260 or 301 or 303 or 307 or
SPEA K300	511
STAT 240	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or STAT 240 or 260 or 301 or 303 or 307 or
STAT 260	511

STAT 301	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 260 or 301 or 303 or
STAT 303	307 or 511
STAT 307	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 301 or 303 or
STAT 311	307 or 511
STAT 340	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 260 or 303 or
STAT 511	307 or 511
STAT 512	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 260 or 301 or
STAT 516	307 or 511
WOST W200	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 260 or 301 or
WOST W210	303 or 511
	EE 302 or STAT 516
	STAT 512
	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 260 or 301 or
	303 or 307
	STAT 340
	EE 302 or STAT 311
	WOST W210
	WOST W200

Upper-Level Courses

All courses numbered 300 or above are considered upper-level courses. In addition, the following 200-numbered courses, defined as upper level by the departments offering them, may be included in the 30 credits in upper-level courses required for graduation.

BIOL 215
 CHM 218, 224, 254, 255, 256, 258, 261, 262, 265, 266, 275,
 and 290
 ENTM 206-207
 GEOL G213, G221, and G222
 MA 261, 263, and 275
 PHYS 270
 PSY 201, 202, and 203, 272

Correspondence Study

Departments may approve enrollment in correspondence-study courses by students pursuing their majors. After you obtain a signature indicating departmental approval, you must bring the enrollment form to the School of Arts and Sciences for authorization to enroll.

Academic Load

You may register for more than 18 credits per semester or 7 credits in a six-week summer session only if: (1) your most recent semester GPA is 3.00 or higher, (2) you have no incomplete grades at the time of registration, and (3) you obtain approval of a dean of the school.

Pass/Not-Pass Option

The following restrictions are in addition to those in the IPFW academic regulations in Part 7 of this Bulletin:

1. You must be classified as a sophomore or higher and must have a GPA of 2.50 or better.
2. You may take no more than two courses per year under the Pass/Not-Pass Option. Summer-session enrollments are counted as part of the preceding academic year for the purpose of this restriction.

Academic Renewal Option

The School of Arts and Sciences participates in the Academic Renewal option for eligible students returning to IPFW after an absence of five or more years. See your advisor for additional details.

Changing Major Within the School

If you change your major within the school, your school requirements will be those specified in the Bulletin in effect at the time the change becomes effective.

Audiology and Speech Sciences

Audiology and Speech Sciences

School of Arts and Sciences

Neff Hall 279 ~ 260-481-6410 ~ www.ipfw.edu/aus

Biology

Department of Biology

School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

The study of biology helps you prepare for careers in research, teaching, industry, government, medicine, medical technology, and several other health-related fields. More than half of all graduates earning a B.S. in biology from IPFW go on to graduate studies, either for advanced degrees or for professional certification.

Biology is among the most interdisciplinary of all sciences and requires a broad background in chemistry, physics, and mathematics, as well as biology. This background enables biologists to study the evolution of life; the manifestations of life from the level of viruses, bacteria, and individual cells to the structure and function of organisms; and the interactions of living organisms with each other and with their environments.

The Department of Biology has new facilities for its teaching and research programs, and its faculty represent many different fields within biology. Interested students can participate in research projects or in other forms of scholarly activity with individual faculty members (see Special Assignments in Biology under Options in Biology, below).

An Associate of Arts with a concentration in biology is described under Arts and Sciences in Part 3 of this *Bulletin*. Two related

programs leading to a B.S. are available: life science teaching certification and medical technology. These are described later in this part of the *Bulletin*. A minor in biology is also available.

Special Regulation for Biology Majors

Time Limit All biology courses applied toward graduation must be completed within 10 years from the time the first biology course was completed.

Options in Biology

Preprofessional Study

Preprofessional students — those seeking careers in chiropractic, dentistry, medicine, optometry, osteopathy, physical therapy, podiatry, or veterinary medicine — should consult with their preprofessional advisor before deciding what specific elective courses in biology to take. Under exceptional circumstances, it may be possible for a biology major to begin professional school after completing three years of undergraduate work at IPFW and to receive credit for the final year after completing the first year of professional school. The B.S. is then awarded after the first year of professional school is completed. Detailed and early planning is necessary.

Special Assignments

in Biology Students who qualify may elect to do an independent project supervised by a faculty member. With the permission of the faculty member and the department chair, the student can enroll in either BIOL 295 or BIOL 595. The student must work closely with the faculty member to design and complete the project. Credits earned in these courses cannot be used to satisfy A/B-elective requirements, and a maximum of 6 such credits can be used toward graduation as general elective credits.

Cooperative Education (Co-op) Program

Co-op is designed to provide employment experience in an area of your academic interest while you are still enrolled in school. A co-op experience may be repeated. You may earn up to 2 elective credits toward your degree.

Honors Degree in Biology

You may earn an honors degree in biology by achieving an overall GPA of 3.00 or higher and a biology GPA of 3.50 or higher, conducting a two-semester (6-credit) research project, preparing a senior thesis based on the research project, and giving an oral presentation of the thesis research. The senior thesis committee must be established one semester before graduation.

Chemistry

Department of Chemistry **School of Arts and Sciences**

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

The Department of Chemistry offers an associate and two bachelor's degree programs: the Associate of Science (A.S.) with a major in chemical methods (listed earlier in this *Bulletin*), the Bachelor of Science (B.S.) with a major in chemistry, and the Bachelor of Science in Chemistry (B.S.C.). Students pursuing one of these bachelor's programs may also be interested in the physical science teaching certification (listed separately in this *Bulletin*).

Communication

Department of Communication School of Arts and Sciences

Neff Hall 230 ~ 260-481-6825 ~ www.ipfw.edu/comm/

English and Linguistics

Department of English and Linguistics School of Arts and Sciences

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

The Department of English and Linguistics offers courses in all periods of British and American literature; in special topics, such as children's literature; and in writing, film study, linguistics, folklore, and mythology. Degree programs in English and minors in creative writing, English, folklore, linguistics, and professional writing are designed for students who desire a humanistic education. The program in English offers excellent preparation for many different careers. Literary study provides a basis for understanding various forms of cultural expression; writing skills are a powerful tool in an age dominated by information technologies; linguistics teaches the structure and function of language; folklore introduces the student to voices otherwise neglected by the dominant culture. The Bachelor of Arts with a major in English is appropriate for someone who wishes to enter a graduate or professional school. Degree options also prepare students for careers in teaching, writing, and business communications.

An Associate of Arts with a concentration in English, offered by the School of Arts and Sciences, is described in Part 3 of this *Bulletin*.

Geosciences

Department of Geosciences School of Arts and Sciences

Science Building 230 ~ 260-481-6249 ~ www.geosci.ipfw.edu

The Department of Geosciences offers the B.A. with a major in geology and the B.S. in geology with options in geology and environmental geology. These programs help you prepare for employment as a professional geologist or in many technical and nontechnical disciplines unrelated to geology, for teaching earth and space science in middle and secondary schools, or for further study at the graduate level.

The Bachelor of Arts program provides broad experience in the natural sciences, mathematics, humanities and social sciences, providing a spectrum of knowledge to prepare you for many technical and nontechnical fields. The Bachelor of Science program emphasizes technical components. It is particularly well-suited for prospective professional geologists or those expecting to seek advanced degrees in geology. Graduates of this program are finding the nation's oil, gas, and mineral resources; resolving environmental problems of the air, water, and soil; and discovering the ways the physical world works.

Classes in advanced subject areas are typically small, with significant individualized attention from the faculty. Highly qualified students gain valuable experience assisting with faculty research or may be employed by the department as laboratory and teaching assistants. Many geoscience courses include field trips ranging from one day to two weeks. These trips provide opportunities for students to travel and study geology throughout North America.

History

Department of History School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/hist

Courses and programs in history help you gain a better understanding of yourself and your world and prepare you for a career in teaching, library work, law, public service, or a related profession.

The requirements for the bachelor's degree, the honors degree, the minor, and teacher certification in history. An Associate of Arts with a concentration in history is described under School of Arts and Sciences.

International Language and Culture Studies

Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

French

The Department of International Language and Culture Studies offers majors in French for the B.A. and B.A. with teaching certification, a minor and a teaching minor in French, and study-abroad opportunities. An Associate of Arts with a concentration in French, offered by the School of Arts and Sciences, is described in Part 3 of this Bulletin.

German

The Department of International Language and Culture Studies offers majors in German for the B.A. and the B.A. with teacher certification, a minor and a teaching minor in German, and studyabroad opportunities. The department offers similar programs in French and Spanish, and limited courses in other languages. An Associate of Arts with a concentration in German, offered by the School of Arts and Sciences, is described in Part 3 of this Bulletin.

German is the language of a major culture and will be increasingly important in the context of rapid change in Europe early in the 21st century. German-speaking countries influence the arts, journalism, medicine, philosophy, politics, technology, and the world economy. Students with interests in business or international studies are encouraged to learn German. The Department of International Language and Culture Studies offers a full curriculum, including German culture, language, and literature. A major in German may be combined with a major in another field, a business minor, or a teaching certificate. With a major in German and a degree, in particular a B.A., you may continue your education in languages or expand into other fields at a graduate school, or you may pursue a career in business or teaching.

Study Abroad

Both majors and nonmajors are encouraged to study abroad. For those who wish to study German, Indiana University administers and cosponsors an academic-year program in Freiburg, a semester program in Freiburg, and a summer program in Graz (Austria).

Spanish

The Department of International Language and Culture Studies offers majors in Spanish for the B.A. and B.A. with teaching certification, a minor and a teaching minor in Spanish, and studyabroad opportunities as well as similar programs in French and German and limited courses in other languages. An Associate of Arts with a concentration in Spanish, offered by the School of Arts and Sciences, is described in Part 3 of this Bulletin.

Spanish is the language of nearly 300 million of the world's people, including many millions in the United States. It is the official language of Spain as well as most of the countries of the western hemisphere. Increasingly, Spanish is a language of commercial, cultural, and political importance in the world. The Department of International Language and Culture Studies offers a full curriculum in the culture, language, and literature of Latin America and Spain. A major in Spanish may be combined with a major in another field, a business minor, or a teaching certificate. With a major in Spanish and a degree, in particular a B.A., you may continue your education in languages or expand into other fields at a graduate school, or you may pursue a career in business or teaching.

Study Abroad

Both majors and nonmajors are encouraged to study abroad. For those who wish to study Spanish, Indiana University administers and cosponsors an academic-year program in Madrid, Spain; semester programs in Spain (Alicante, Madrid, and Seville) and Chile (Santiago); and summer programs in Spain (Salamanca) and Mexico (Cuernavaca and Guanajuato).

Mathematical Sciences

Department of Mathematical Sciences School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

Mathematics Teaching

The Department of Mathematical Sciences offers programs leading to the Bachelor of Science with a major in mathematics and in mathematics teaching.

Philosophy

Department of Philosophy School of Arts and Sciences

Neff Hall 130 ~ 260-481-6366

Physics

Department of Physics School of Arts and Sciences

Kettler Hall 126B ~ 260-481-6306 ~ www.ipfw.edu/physics/

Political Science

Department of Political Science School of Arts and Sciences

Classroom-Medical Building 209 t 260-481-6686 ~ www.ipfw.edu/pols

Political science includes basic issues in governance; political structures, processes, and controls; social conditions; and intergovernmental relations. This program helps you prepare to be an informed citizen or public servant; to succeed in a wide variety of careers; or to engage in further study of government, politics, or law.

In addition to the Bachelor of Arts and the minor in political science, the department offers specialized advising for prelaw students and teacher preparation in social studies. An Associate of Arts with a concentration in political science is described in the School of Arts and Sciences section of Part 3.

Prelaw Program and Advising

Advising for prelaw students is provided by faculty in the political science department. Although no specific major is usually required for admission to law school, prelaw students can benefit greatly from the experience and analytical skills gained from the study of political science.

Psychology

Department of Psychology School of Arts and Sciences

Neff Hall 388 ~ 260-481-6403 ~ www.ipfw.edu/psyc

The Department of Psychology offers a bachelor's degree in psychology. A minor in psychology is also offered for students in other bachelor's degree majors. Many courses are offered in the evenings, and students may attend full or part time.

An Associate of Arts with a concentration in psychology is described in the School of Arts and Sciences section of Part 3.

Honors Program in Psychology

A student may earn an honors degree in psychology by completing all of the requirements toward the B.A., achieving an overall GPA of 3.50 or higher, and conducting a two-semester independent research project. In the first semester of independent research the student is to complete three credits of PSY 498 or PSY 590. In the second semester, the student is to complete an honors thesis, PSY 499. As part of the honors thesis, an oral presentation to the department is required.

Sociology and Anthropology

Department of Sociology and Anthropology School of Arts and Sciences

Classroom-Medical Building 241 ~ 260-481-6842 ~ www.ipfw.edu/soca/soc.htm

Teacher Certification

You may be certified as a teacher of social studies after fulfilling all requirements for the B.A. with a major in sociology and all requirements for teacher certification. Full information on teacher certification requirements is available from the School of Education.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUC K201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

School of Education

Neff Hall 250 ~ 260-481-4146 ~ www.ipfw.edu/educ/

The mission of the School of Education is to prepare professionals in teaching, counseling, and leadership who demonstrate the

capacity and willingness to continuously improve schools and related entities so that they become more effective with their clients by:

1. Becoming more caring, humane, and functional citizens in a global, multicultural, democratic society
2. Improving the human condition by creating positive learning environments
3. Becoming change agents by demonstrating reflective professional practice
4. Solving client problems through clear, creative analyses
5. Assessing client performance, creating and executing effective teaching, counseling, and educational leadership by utilizing a variety of methodologies reflecting current related research
6. Utilizing interdisciplinary scholarship, demonstrating technological and critical literacies, and effectively communicating with all stakeholders.

The academic programs in the School of Education are listed below. Requirements for these programs appear in Part 4 of this *Bulletin*.

The School of Education at IPFW offers B.S.Ed. degrees in elementary education and secondary education, and an A.S. in early childhood education. B.S.Ed. degrees are divided into four concentrations based on developmental levels. They are divided under the following:

	<i>Concentration</i>	<i>School Setting</i>
<i>Elementary:</i>	Early Childhood (EC)	Preschool and Elementary: Primary
	Middle Childhood (MC)	Elementary: Intermediate
<i>Secondary:</i>	Early Adolescence (EA)	Middle School/Junior High
	<i>Select one content area major: earth/space sciences, French, German, language arts, social studies, Spanish</i>	
	Adolescence/Young Adulthood (AYA)	High School
	<i>Select one content area major: earth/space sciences, French, German, language arts, social studies, Spanish</i>	

The School of Education also offers minors in each of the content areas listed above (except AYA social studies) and the following:

Chemistry
 Computer Education (endorsement for elementary or secondary)
 Life Sciences
 Mild Intervention (certificate for elementary or secondary)
 Physical Sciences
 Physics
 Theatre

In addition the following teaching majors are available at IPFW through the following schools:

<i>Major</i>	<i>School</i>
Art Education (all school settings)	Visual and Performing Arts
Chemistry Teaching	Arts and Sciences
Life Sciences Teaching	Arts and Sciences
Mathematics Teaching	Arts and Sciences
Music Education	Visual and Performing Arts

Physics
Theatre Teaching

Arts and Sciences
Visual and Performing Arts

Teaching majors can also be completed as a part of the following B.A./B.S. programs:

Major

English
French
German
Spanish

School

Arts and Sciences
Arts and Sciences
Arts and Sciences
Arts and Sciences

Transition to Teaching

The School of Education also has an alternative route to teacher certification called Transition to Teaching for students who have already earned a baccalaureate degree. This one-year intense program offers teacher certification for elementary and secondary licensure at the graduate level. For a list of qualifications, prerequisites, course requirements, and general information, please contact the School of Education's Licensing and Advising Center (Neff 243).

Educational Studies

Department of Educational Studies

School of Education

Neff Hall 250 ~ 260-481-6441

Elementary Education

Special Academic Regulations for Students in Elementary Education

In addition to the academic regulations of IPFW (see Part 7), the following rules apply to elementary education students.

GPA Requirements

Students with a cumulative GPA of 2.50 or higher are automatically admitted to the school. Students with a GPA of 2.00–2.49 who wish to transfer into the school or change their major may be admitted as education premajors. These students will not be eligible for admission to teacher education until they achieve a cumulative GPA of 2.50 or higher.

Developmental Courses

No credit toward graduation is awarded for ENG R150, R151, or W130; or MA 109 or 113.

Pass/Not-Pass Option

Permission to elect this option must be requested on a form available from the School of Education. Permission will be granted only if the course will not be used to fulfill any degree requirements other than total credits for the degree.

Correspondence Courses

The school approves limited numbers of credits earned by correspondence study. You may not use more than 18 credits of correspondence courses toward the degree.

Admission to Block 1

In order to be admitted into Block I, you must earn a B or better in the following courses: ENG W131, COM 114, and EDUC W200. You must earn a C or better in the following courses: EDUC K201 and a quantitative reasoning (math) course, and you must pass EDUA F300. You must pass the Pre-Professional Skills Test (PPST). You must complete 45 credits with a cumulative GPA of 2.50.

For the bachelor's degree, you must complete each course in the education blocks 1, 2, and 3 with a grade of C or better. In blocks 2 and 3 you must have an overall GPA of 2.50 or higher in each block. Elementary education students must complete each general education area with a GPA of 2.00 or higher. Grades earned in each teaching minor and/or concentration must average 2.50 or higher. You must have earned a cumulative GPA of 2.50 or higher to be eligible to receive a B.S.Ed.

Academic Fresh Start

The school has an academic fresh start option to assist students who are returning to college after an absence of five or more years. The policy permits students' recent college performance to determine the GPA required for admission into teacher education.

You must apply for this option after the completion of 12 credits following the admission/readmission to IPFW. For further information, consult with your academic advisor or visit the School of Education Licensing and Advising Center, Neff 243.

Upper-Division Courses

You must complete at least 35 credits at the 300–400 level.

Deadlines

Before you student teach, you must satisfactorily complete a speech and hearing examination prescribed by the School of Education. During the senior year, you must file an application for your degree.

Resident Study

You must complete your final 32 credits at IPFW, with at least 12 of these credits in professional education courses.

Teacher Licensure

To be eligible for initial teacher licensure, you must complete the elementary education requirements for a bachelor's degree, pass the Praxis I and Praxis II exams, complete a criminal history report, and apply for the license.

Early Field Experience Program

If you are pursuing a B.S. in elementary education, you are required to participate in the prescribed field-experience program. Field-experience courses are numbered M101, M201, M301, and M401 and must be taken as shown in the degree-requirements listings.

This distinctive program provides an organized series of courses designed to integrate all professional education courses with field experiences. The program allows you repeated opportunities to participate with teachers/pupils in classrooms. In the early part of your field-experience program, you are introduced to teaching, educational concerns, goal setting, and professionalism.

Student Teaching

All students expecting to student teach should schedule an appointment and file a completed application in the office of Student Teaching, Neff 243, one year before you plan to student teach. Appointments are available between October to December for students who plan to student teach in the fall semester or January to March for students who plan to student teach in the spring semester. Please do not submit an application unless you actually intend to complete your student teaching during the upcoming school year. Exact dates are available by contacting the office of Student Teaching (Neff 243, 260-481-6449).

Portfolio

All students seeking initial teacher certification must complete and submit a portfolio for assessment. The portfolio is based upon the Interstate New Teachers Assessment and Support Consortium (INTASC) Standards and is used to assess a teacher candidate's knowledge and mastery of the standards. Portfolio checkpoints are seen throughout the program of study with a final assessment taken during the student teaching semester.

Secondary Education

Special Academic Regulations for Students in Secondary Education

In addition to the academic regulations of IPFW (see Part 7), the following rules apply to secondary education students.

GPA Requirements

Students with a cumulative GPA of 2.50 or higher are automatically admitted to the school. Students with a GPA of 2.00–2.49 who wish to transfer into the school or change their major may be admitted as education premajors. These students will not be eligible for admission to teacher education until they achieve a cumulative GPA of 2.50 or higher.

Developmental Courses

No credit toward graduation is awarded for ENG R150, R151, or W130; or MA 109 or 113.

Pass/Not-Pass Option

Permission to elect this option must be requested on a form available from the School of Education. Permission will be granted only if the course will not be used to fulfill any degree requirements other than total credits for the degree.

Correspondence Courses

The school approves limited numbers of credits earned by correspondence study. You may not use more than 18 credits of correspondence courses toward the degree.

Admission to Block 1

In order to be admitted into Block 1 you must earn a B or better in the following courses: ENG W131, COM 114, and EDUC W200. You must earn a C or better in the following courses: EDUC K201 and a quantitative reasoning (math) course, and you

must pass EDUA F300. You must pass the Pre-Professional Skills Test (PPST). You must complete 45 credits with a cumulative GPA of 2.50.

For the bachelor's degree, you must complete each course in the education Blocks 1 and 2 with a grade of C or better. In Block 2 you must have an overall GPA of 2.50 or higher. Secondary education students must complete each general education area with a GPA of 2.00 or higher. Grades earned in each teaching major and/or minor must average 2.50 or higher. You must have earned a cumulative GPA of 2.50 or higher to be eligible to receive a B.S.Ed.

Academic Fresh Start

The school has an academic fresh start option to assist students who are returning to college after an absence of five or more years. The policy permits students' recent college performance to determine the GPA required for admission into teacher education.

You must apply for this option after the completion of 12 credits following admission/readmission to IPFW. For further information, consult with your academic advisor or visit the School of Education Licensing and Advising Center, Neff 243.

Upper-Division Courses

You must complete at least 35 credits at the 300-400 level.

Deadlines

Before you student teach, you must satisfactorily complete a speech and hearing examination prescribed by the School of Education. During the senior year, you must file an application for your degree.

Resident Study

You must complete your final 32 credits at IPFW, with at least 12 of these credits in professional education courses.

Teacher Licensure

To be eligible for initial teacher licensure, you must complete the secondary education requirements for a bachelor's degree, pass the Praxis I and Praxis II exams, complete a criminal history report, submit a satisfactory portfolio (see below), and apply for the license.

Early Field Experience Program

If you are pursuing a B.S. in secondary education, you are required to participate in the prescribed field-experience program. Field-experience courses are numbered M101, M201, M301, and M401 and must be taken as shown in the degree-requirements listings.

This distinctive program provides an organized series of courses designed to integrate all professional education courses with field experiences. The program allows you repeated opportunities to participate with teachers/pupils in classrooms.

In the early part of your field-experience program, you are introduced to teaching, educational concerns, goal setting, and professionalism.

Student Teaching

All students expecting to student teach should schedule an appointment and file a completed application in the office of Student Teaching, Neff 243, one year before you plan to student teach. Appointments are available between October to December for students who plan to student teach in the fall semester, or January to March for students who plan to student teach in the spring semester. Please do not submit an application unless you actually intend to complete your student teaching during the upcoming school year. Exact dates are available by contacting the office of Student Teaching (Neff 243, 260-481-6449).

Portfolio

All students seeking initial teacher certification must complete and submit a portfolio for assessment. The portfolio is based upon the Interstate New Teachers Assessment and Support Consortium (INTASC) standards and is used to assess a teacher candidate's knowledge and mastery of the standards. Portfolio checkpoints are seen throughout the program of study with a final assessment taken during the student teaching semester.

Early Childhood Education

Special Academic Regulations for Students in Early Childhood Education

In addition to the academic regulations of IPFW (see Part 7), the following rules apply to early childhood students.

Developmental Courses

No credit toward graduation is awarded for ENG R150, R151, or W130; or MA 109 or 113.

Pass/Not-Pass Option

Permission to elect this option must be requested on a form available from the School of Education. Permission will be granted only if the course will not be used to fulfill any degree requirements other than total credits for the degree. A.S. students are limited to two courses under this option.

Correspondence Courses

A.S. students may not use more than 9 credits of correspondence courses credit toward the degree.

Grades

You must complete each professional education course with a grade of C or better. You must have earned a cumulative GPA of 2.00 or higher to be eligible to receive the A.S.

Academic Fresh Start

The school has an academic fresh start option to assist students who are returning to college after an absence of five or more years. The policy permits students' recent college performance to determine the GPA required for admission into teacher education.

You must apply for this option after the completion of 12 credits following admission/readmission to IPFW. For further information, consult with your academic advisor or visit the School of Education Licensing and Advising Center, Neff 243.

Resident Study

You must complete your final 32 credits at IPFW, with at least 12 of these credits in professional education courses.

School of Health Sciences

Neff Hall 142 ~ 260-481-6967 ~ www.ipfw.edu/hsc/

The mission of the School of Health Sciences is to educate students for health professions and the consumer and family sciences within the scope of national and state laws and accreditation guidelines. The school identifies and addresses the ever-changing

needs of the communities served by IPFW through development and enhancement of appropriate programs in the health professions and consumer and family sciences.

IPFW is the leading resource for intellectual endeavors across the community. The School of Health Sciences specifically enriches the health professions, the consumer and family sciences, and the community through provision of services and expansion of knowledge. These enrichments include, but are not limited to, (1) promotion of research and scholarly endeavor; (2) leadership contribution within IPFW and the community it serves; (3) participation in professional organizations and activities; and (4) provision of opportunities for lifelong learning.

Available degrees and certificates are listed below.

Associate of Science

Subject

Dental Hygiene
Dental Laboratory Technology
Hotel, Restaurant, and Tourism Management
Nursing
Radiography

Department

Dental Education
Dental Education
Consumer and Family Sciences
Nursing
School of Health Sciences

Bachelor of Science

Subject

Hospitality Management
Human Services
Nursing

Department

Consumer and Family Sciences
Human Services
Nursing

Certificate

Subject

Critical Care Nursing
Dental Assisting

Department

Nursing
Dental Education

Transfer Program

Subject

Child Development and Family Studies
Clinical Laboratory Science
Cytotechnology
Dietetics
Health Information Administration

Department

Purdue
Indiana
Indiana
Purdue
Indiana

Medical Imaging Technology	Indiana
Nuclear Medicine	Indiana
Occupational Therapy	Indiana
Paramedic Sciences	Indiana
Physical Therapy	Indiana
Radiation Therapy	Indiana
Respiratory Therapy	Indiana
Retail Management	Purdue

To complete any of the above programs, you must fulfill the requirements of IPFW (see Part 7), the School of Health Sciences, and the specific program. Where school or department regulations are stricter than IPFW regulations, the stricter regulations apply.

Academic Renewal Option

Many of the degree programs offered by the school provide the Academic Renewal Option for eligible students returning to IPFW after an absence of five or more years.

See your advisor before or during the first semester you return for additional details.

Special Academic Regulations for Students in Health Sciences

The school reserves the right to require withdrawal of any student whose presence is detrimental to patients, faculty, or clinic personnel. Clinical sites reserve the right to require withdrawal of any student whose presence is detrimental to patients or clinical personnel.

Applicants with criminal records are advised that many agencies perform criminal-record screens on students who may be placed with them. These agencies may not accept a student who has a criminal record. In addition, students who have a record of a sex crime against a child may not be placed into a clinical in which there is an actual or potential possibility that they will come into contact with children (IC 5-2-12-12). Students who cannot be placed into clinicals due to their criminal records may be unable to graduate from the program and are advised to pursue a nonclinical degree.

Technical Standards

Nonacademic criteria that all applicants/students are expected to meet vary by degree program. These criteria include the following five categories: (1) observation; (2) communication; (3) motor-function; (4) intellectual-conceptual, integrative and quantitative abilities; and (5) behavior and social attributes.

Consumer and Family Sciences

School of Health Sciences

Neff Hall 330 ~ 260-481-6562

Dental Education

Department of Dental Education School of Health Sciences

Neff Hall 150 ~ 260-481-6837

Special Academic Regulations for Students in Dental Assisting

Attendance

Because of the experiential learning process used in all dental assisting courses, class attendance is essential and mandatory. Some evening hours are required for additional clinical experiences and professional association meetings.

Physicals and Immunizations

Before beginning clinical courses, students must submit evidence that they have (1) completed an annual physical examination, (2) obtained the required immunizations, (3) completed TB testing, (4) received hepatitis B immunizations and Hepatitis B titer, and (5) hold a current CPR certification at the professional healthcare-provider level with the American Heart Association or the American Red Cross.

Please see Part 3 of the Bulletin, School of Health Sciences Special Academic Regulation for students in health sciences regarding student withdrawal and criminal records checks.

Special Academic Regulations for Students in Dental Hygiene

Attendance

Class attendance is essential and mandatory because of the experiential learning process used in all dental hygiene courses. Some evening hours are required for additional clinical experiences and professional association meetings.

Physicals and Immunizations

Before beginning clinical courses, students must submit evidence that they have (1) completed an annual physical examination, (2) obtained the required immunizations, (3) completed TB testing, (4) received hepatitis B immunizations, and (5) hold current CPR certification at the professional healthcare-provider level.

Please see Part 3 of the Bulletin, School of Health Sciences Special Academic Regulation for Students in Health Sciences regarding student withdrawal and criminal records checks.

Human Services

Department of Human Services

School of Health Sciences

Neff Hall 120 ~ 260-481-6424

Nursing

Department of Nursing

School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/nursing

The IPFW Parkview Nursing Program is accredited by the National League for Nursing Accreditation Commission (NLNAC), 61 Broadway 33rd Floor, New York, NY 10006, telephone, 1-800-669-1656. All current nursing policies are online at www.ipfw.edu/nursing/handbook/default.shtml.

As graduates of a prelicensure nursing program, students will have attained the knowledge and skills needed to provide quality healthcare and the academic credentials required to take the National Council Licensure Examination (NCLEX-RN). Upon successful completion of this examination, the student will be eligible to practice as a registered nurse. The associate degree graduate is prepared to provide nursing care within structured healthcare organizations. The baccalaureate degree graduate is prepared at the professional level to function in a leadership role with other team members in varied and complex healthcare settings.

The RN-B.S. curriculum is uniquely designed for associate degree or diploma registered nurses, working full or part time, who wish to step up to bachelor's degree. It is designed to meet the student's professional goals in a flexible environment. Included in the program are two clinical practicums in a variety of acute, longterm, and community settings. Advising is personalized.

Students are responsible for current nursing policies found online at www.ipfw.edu/nursing/handbook/default.shtml.

Prenursing

Admission to the nursing program from prenursing is limited and competitive. Prenursing applicants must meet the following requirements:

- Be admitted to IPFW as a degree-seeking student (see Part 7)
- Complete 16 hours of prenursing curriculum with a grade of C or better in each course. Courses may be repeated only one time. The prenursing curriculum includes:

PSY 120

ENG W131

CHM 104 or CHM 111

BIOL 203

COM 114

- Have a minimum IPFW grade-point average (GPA) of 2.5 on a 4.0 scale in the prenursing curriculum. The GPA is calculated on only the 16 hours of prenursing curriculum taken at IPFW or at other Purdue University or Indiana University campuses. Applicants are ranked based on this GPA. This GPA does not include transfer courses.

- A minimum GPA does not guarantee admission. The actual GPA necessary for admission varies with the GPA distribution of the applicant pool and the number of available seats for admission.
- Applicants are required to take a preadmission examination. The examination is administered on specific dates and times. Applicants pay a testing fee.
- All transfer grades will be reviewed and evaluated in the admission process.
- First-priority consideration for program admission will be given to students who have completed 9 or more of the 16 prenursing curriculum hours at IPFW or at other Purdue University or Indiana University campuses. Three credit hours of a required science must be taken at a Purdue University or Indiana University campus for admission consideration.
- If additional seats are available, the second priority is given to students who have completed less than 9 of the 16 prenursing curriculum hours at IPFW or at other Purdue University or Indiana University campuses. Three credit hours of required science must be taken at a Purdue University or Indiana University campus for admission consideration.
- If additional seats are available, the third priority is given to students who have none of the 16 prenursing curriculum hours at IPFW or at other Purdue University or Indiana University campuses. In this case, the transfer GPA of the prenursing curriculum will be used for admission.

Transfer Students from Other Nursing Programs

Transfer students from other NLNAC- or CCNE-accredited RN nursing programs may be considered for admission based on availability of space. Students must have completed 24 credit hours with a GPA of 3.5 (4.0 scale) or higher.

- Applicants are required to take a preadmission examination. The examination is administered on specific dates and times. Applicants pay a testing fee.

Criteria for Dismissal from Prenursing/ Ineligibility for Admission to Nursing

- A student who earns two grades below C in the same or any combination of two courses required in the prenursing curriculum will be ineligible for program admission for a period of five years after earning the last grade below C.

Criteria/Requirements for All Applicants

- Should a tie in applicants' GPAs occur, rank ordering will be based upon the number of repeated courses at IPFW and then on grades earned in science courses at IPFW.
- Students will apply to enter the A.S. or B.S. degree program.
- Students are admitted for a specific semester and are expected to enter that semester. Students who do not enter that semester must reapply for competitive program admission. Students who decline admission two times will no longer be considered.
- Students must apply by the following deadlines: May 1 (fall semester) or Dec. 1 (spring semester).
- LPN admission is conducted once per year with a Dec. 1 (spring semester) application deadline.
- Students must return the acceptance form by the deadline stated in the acceptance letter.
- Students who have not been accepted, but who are qualified, may reapply for admission.
- Credits in developmental courses (ENG R150, R151, W130, or MA 109) do not apply toward either the prenursing or nursing curriculum.
- Students must have completed courses in biology and pharmacology within five years of application.
- Students must have completed courses in chemistry and nutrition within 10 years of application.

Special Academic Regulations for Students in Nursing

Physicals, Immunizations, TB, and CPR

- Proof of physical examination within six months of admission, required immunizations, and required TB testing must accompany the nursing application.
- Proof of CPR, TB, and liability insurance must be submitted to the nursing office each semester by Aug. 1 (fall semester), Dec. 1 (spring semester), and May 1 (summer session).

Degree Requirements

- Students are expected to complete the A.S. within four years after admission to the program.
- Students are expected to complete the B.S. within five years after admission to the program.
- Students are required to complete the degree under the requirements specified in the Bulletin, Requirements for Degrees (see Part 7), and School of Health Sciences (see Part 3), in effect at the time of admission to nursing.

Validating Previous Knowledge and Experience

- Previously acquired knowledge/experience may be validated by challenge examination(s). Contact a nursing or prenursing advisor for specific information and department guidelines.
- In all cases, eligibility for a challenge examination; the type of examination; testing procedures, date, time, and location; and evaluation of the performance will be determined by the IPFW Department of Nursing faculty. Decisions made by the department faculty with respect to the above are final. Only one attempt at an authorized challenge examination may be made.
- RN–B.S. students who are certified by a recognized nursing organization may seek credit towards a nursing elective. Certain certificates may be used as credit for required nursing courses.
- If a student earns a grade below C in a required nursing course, enrollment in another nursing course cannot be completed until the failed course is repeated with an earned grade of C or better.
- If a student earns two grades below C in the same or any combination of two courses required in the nursing curriculum, the student will be dismissed from the nursing program. A student who has been dismissed from the nursing program is ineligible for admission into the nursing program for a period of five years from the date of dismissal.
- Dismissal from the nursing program may result at anytime if it is determined that inappropriate behavior of a nursing student places clients, other students, staff, faculty, or the university at risk for any harm or potential harm.
- A student who is dismissed may appeal the decision to the Department of Nursing. If the student is dismissed for failure to meet the university's minimum academic standards, application for readmission must follow the procedures established by the university. The Department of Nursing does provide the Academic Renewal option.

School of Visual and Performing Arts

Visual Arts Building 102 ~ 260-481-6977 ~ www.ipfw.edu/vpa/

The mission of the IPFW School of Visual and Performing Arts is to (1) provide exceptional professional and liberal arts degree programs that combine development in an artistic discipline and career preparation in the arts to students through individualized instruction within a broadly based curriculum, (2) offer culturally enriching opportunities to all students and members of the university community, and (3) be recognized as the center for arts education, outreach, collaborations, and professional

leadership in northeast Indiana as well as a major regional arts resource through excellence in artistic performances, productions, exhibitions, library holdings, and technology. To support this mission, the faculty of the School of Visual and Performing Arts subscribe to the highest academic, artistic, and ethical standards for themselves and their students.

The school is composed of the departments and program areas of fine arts, visual communication and design, music, and theatre and includes faculty associated with both Indiana University and Purdue University. More than 600 students majoring and minoring in the visual and performing arts receive instruction from professional and academic staff that include 32 full-time faculty, 9 half-time continuing lecturers, and more than 50 limited-term lecturers and visiting artists.

The school offers the following academic programs:

Associate of Science

<i>Subject</i>	<i>Department/Program</i>
Commercial Art	Visual Communication and Design

Bachelor's Degrees

<i>Subject</i>	<i>Department/Program</i>
Art Education (B.A.)	Fine Arts
Fine Arts (B.A. and B.F.A.)	Fine Arts
Fine Arts (B.F.A.)	Visual Communication and Design
Music (B.Mus. and B.S.)	Music
Music Education (B.Mus.Ed.)	Music
Music Therapy (B.S.M.T.)	Music
Theatre (B.A.)	Theatre
Theatre Teaching (B.A.)	Theatre

Certificate

<i>Subject</i>	<i>Department/Program</i>
Piano Pedagogy	Music

Minor

<i>Subject</i>	<i>Department/Program</i>
Art History	Fine Arts
Dance	Theatre
Music	Music
Studio Art	Fine Arts

Theatre
Theatre Teaching

Theatre
Theatre

The above programs are described in Part 4 of this *Bulletin*.

As a regularly admitted student, you must follow the degree requirements and the school and program academic regulations specified in the Bulletin in effect at the time you first enrolled in the school. If you wish to follow the degree requirements specified in a later edition of the Bulletin, you must consult with your departmental advisor.

Departments and program areas reserve the right to publish new academic requirements and regulations at the beginning of an academic year. If such changes occur, newly admitted students will be subject to the revised requirements.

Academic Renewal Option

The School of Visual and Performing Arts participates in the Academic Renewal Option for eligible students returning to IPFW after an absence of five or more years. See your advisor for additional information.

Music

Department of Music

School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714 ~ www.ipfw.edu/vpa

Music and an Outside Field, Music Education, Music Performance

The Department of Music provides degree programs leading to careers in music, functions as a service department to the university, and serves as a musical center and resource for Greater Fort Wayne and northeast Indiana. The department offers programs leading to the following degrees: Bachelor of Music in performance, Bachelor of Music Education, Bachelor of Science in Music and an Outside Field, and Bachelor of Science in Music Therapy. A minor in music and a certificate in piano pedagogy are also available.

Accreditation

Programs offered by the department are accredited by the National Association of Schools of Music, American Music Therapy Association, and the National Council for Accreditation of Teacher Education.

Admission

One must satisfy the admission requirements of IPFW (see Part 7) and successfully complete an audition and entrance placement exams wherein appropriate faculty committees evaluate a student's musical knowledge, skill, and potential. Students who do not meet all music-department entrance requirements may be admitted to the department as pre-music students. (See *Department of Music Student Handbook* for further information.)

Curricula

To complete a degree in music, one must satisfy the university's general education requirements, Department of Music core requirements, and requirements specific to the degree program.

Special Academic Regulations for Students Majoring in Music

Department Handbook

Detailed information regarding policies and practices of the department is included in the *Department of Music Student Handbook*, available in the department office. Information included below is detailed in the handbook. All music majors are expected to be familiar with the contents of the handbook.

Academic Probation

As a music major, you must earn: 1) a semester GPA of 2.00 and a cumulative GPA of 2.00 or higher; 2) a semester GPA of 2.5 or higher for all music courses required for your degree program; 3) a C or better in a music course or ensemble required for your degree, with the exception of X095 Performance Class. Should you fail to meet these standards, you will be placed on departmental probation.

Students on probation may lose eligibility for scholarships and financial aid, as well as risk dismissal from the program. See the department's student handbook for further information on academic probation.

Dismissal

You will be dismissed from the department when (1) you have been placed on departmental probation due to gradepoint deficiency and do not correct the deficiency in the next semester of enrollment; (2) you have been placed on departmental probation for failure to earn a C or better in a music course required for your degree (with the exception of X095 Performance Class) and do not earn a C or better in your second attempt in the same course; (3) you fail to earn a C or better in two consecutive semesters of the same ensemble.

Readmission

If you are dismissed, you may petition for readmission to the Department of Music one semester from the date of your dismissal. Students returning from dismissal will automatically be on probation. Failure to maintain a 2.5 GPA for the first semester of re-entry or to make a C or better in a required music course will result in permanent dismissal from the department.

Keyboard Proficiency

All music majors must pass a keyboard proficiency examination. Entering students who are prepared to take the examination may do so before registration; all others must register in piano courses until this requirement is satisfied. The examination tests ability to use the piano as a professional tool. The test is given in portions at the three exam periods each semester and may be taken at other times by special arrangement with the coordinator of the area.

Transfer Credits

Audition and placement exams will be required. You may be accepted by the department with upper-divisional standing.

Upper-Division Standing

During the semester in which you are enrolled in or have successfully completed MUS T214, 216, M202, and the fourth semester of applied music at the 300 or 400 level on the same instrument, you are eligible and will be expected to take the Upper Division Performance Examination (MUS X296), an applied music performance for the applied music instructor and the resident music faculty. Upon the recommendation of the applied instructor and advisor, the performance examination may be postponed beyond four semesters of study on the primary instrument, but you must achieve eligibility and take the examination by the end of the sixth semester of study. No extensions will be given beyond the sixth semester except in the case of extreme extenuating circumstances and will require the recommendation of the applied instructor and the advisor and approval by the chair of the department. Failure to achieve eligibility does not constitute extenuating circumstances. For complete procedures, see the Department of Music Student Handbook.

Music education majors must complete the Music Education Upper Divisional Examination (MUS X297). Music therapy majors must complete the Music Therapy Skills Examination MUS X298. See the course descriptions for content and prerequisites for these examinations.

Performance Studies for Students Majoring in Music

Primary Performance

Area Performance study (applied music) is required of all music majors and is available for the study of voice, keyboard, winds, strings, and percussion. Students are assigned to applied-music teachers on the basis of instructor availability and suitability. An audition and departmental permission are required. Both a junior and a senior recital are required for the B.Mus. All other degrees require a concentration recital, the required number of semesters of study varying with the degree. To be eligible to perform a recital, you must be enrolled in an applied music course. A successful prerecital hearing is required. For a complete list of guidelines, refer to the Department of Music Student Handbook.

Secondary Performance Area

All students must pass the Keyboard Proficiency Examination (X299). Students for whom keyboard is not the primary applied area must enroll in Class Piano (P111, 121, 131, 141) until the examination is completed. If students complete the examination in fewer than four semesters, they will normally complete the credits with further applied study at the 200 level in piano. Study of another instrument or voice is possible, but contingent upon the consent of the degree advisor and the appropriate applied instructor. An audition is required to enter 200-level study. Students whose primary instrument is keyboard will take one semester of Keyboard Skills (P211) and three semesters of 200-level applied study of another instrument or voice. The choice of instrument requires the consent of the degree advisor. An audition is required to enter 200-level study.

Performance Class X095

This 0-credit course is a weekly meeting of music majors and minors and serves as a laboratory for performance. Part of the course requirement is attendance at specified public concerts and recitals. Refer to the listing of courses for your degree program for specific information regarding your required minimum number of semesters.

Music minors should refer to the course description for X095-02 to find their specific requirements.

Ensemble Requirements

Music majors are required to enroll in a major ensemble each semester of enrollment in the applied primary. Refer to the listing of courses for your degree program for specific information regarding your required minimum number of ensemble credits. Piano performance majors (Bachelor of Music) may substitute X002 (Accompanying) for two semesters toward this requirement.

Correspondence Study

Limited credit toward your degree may be earned by correspondence study. See your advisor for additional information.

Restriction on Use of University Facilities

University facilities are not to be used for any private enterprises such as teaching.

Time Limit

At the time you are awarded your music degree, it is intended that you be current in the knowledge and skills you have attained. Accordingly, if you do not complete the requirements within seven years of matriculation, you may be required to (1) demonstrate your eligibility to continue in your degree program by passing comprehensive examinations in all music subjects previously completed, and (2) meet the degree requirements specified in the current Bulletin. Time spent fulfilling a military-service obligation will not be counted toward this seven-year limit.

Theatre

Department of Theatre

School of Visual and Performing Arts

Williams Theatre 128 ~ 260-481-6551 ~ www.ipfw.edu/vpa

Degree programs offered by the Department of Theatre provide comprehensive training for the theatre profession and explore theatre's 2,000-year history and literature. Through its programs, the department seeks to provide the finest in undergraduate education by providing a professional curriculum that embodies defined objectives and comprehensive performance/production training. Students study both content (dramatic literature, theory and criticism, and theatre history) and process (acting, directing, playwriting, designing, and production).

The department offers a Bachelor of Arts with a major in theatre or theatre teaching. Emphases are available in acting, design/technology, directing, and playwriting. An individually customized emphasis is also available.

Minors in theatre, dance, and theatre teaching are available to students who are interested in theatre, but are pursuing IPFW bachelor's degrees in other subjects.

Special Academic Regulations

Probation

You must earn a grade of C or better in each required theatre course and maintain a GPA of 2.5 or higher over all theatre courses you have completed. You are placed on academic probation if you do not meet this requirement.

Dismissal and Readmission

If you are on probation and do not correct academic deficiencies during your next semester of enrollment, you will be dismissed from the theatre program.

If you are dismissed from the theatre program, you may seek readmission under the university guidelines specified in Part 7 of this Bulletin.

Time Limit

You must complete the degree requirements specified in the Bulletin in effect at the time you were regularly admitted to the university. However, to ensure that you will be professionally competitive with other members of your graduating class, you may be required to satisfy the degree requirements specified in the most current Bulletin if you have not completed all requirements for your degree within seven years from the date of your admission.

Degree Requirements

You may not use a single course to fulfill more than one Department of Theatre requirement.

Department Handbook

Detailed information regarding requirements, policies, and practices of the department is included in a theatre student handbook available in the department office. All theatre majors must comply with the requirements specified in the handbook.

Theatre Teaching

Degree programs offered by the Department of Theatre provide comprehensive training for the theatre profession and explore theatre's 2,000-year history and literature. Through its programs, the department seeks to provide the finest in undergraduate education by providing a professional curriculum that embodies defined objectives and comprehensive performance/production training. Students study both content (dramatic literature, theory and criticism, and theatre history) and process (acting, directing, playwriting, designing, and production).

The department offers a Bachelor of Arts with a major in theatre or theatre teaching. Minors in both theatre and theatre teaching are available to students who are interested in theatre or preparing to teach at the secondary-school level, but who are pursuing IPFW bachelor's degrees in other subjects.

Special Academic Regulations

Probation and Dismissal

You must earn a grade of C or better in each required theatre course and maintain a GPA of 2.5 or higher over all theatre courses you have completed. You are placed on academic probation if you do not meet this requirement.

If you are on probation and do not correct academic deficiencies during your next semester of enrollment, you will be dismissed from the theatre program.

Readmission

If you are dismissed from the theatre program, you may seek readmission under the university guidelines specified in Part 7 of this Bulletin.

Degree Requirements

You may not use a single course to fulfill more than one Department of Theatre requirement.

Time Limit

You must complete the degree requirements specified in the Bulletin in effect at the time you were regularly admitted to the university. However, to ensure that you will be professionally competitive with other members of your graduating class, you may be required to satisfy the degree requirements specified in the most current Bulletin if you have not completed all requirements for your degree within seven years from the date of your admission.

Departmental Handbook

Detailed information regarding policies and practices of the department is included in a theatre student handbook available in the department office.

Visual Arts/Fine Arts Program

Department of Visual Arts/Fine Arts Program School of Visual and Performing Arts

Visual Arts Building 117 ~ 260-481-6705 ~ www.ipfw.edu/vpa/

The mission of the Department of Visual Arts is to educate its students and the community in fine art. Degrees offered by the Fine Arts Program are a Bachelor of Arts, a Bachelor of Fine Arts, a Bachelor of Arts in art education, and a fine arts minor. A minor in art history is described elsewhere in this part of the *Bulletin*.

Transfer Credit

All studio art and art history courses transferred from another institution or campus must be evaluated by an appropriate faculty member in the fine arts program before they may be applied to the B.A.

Residence Requirements

At least 33 credit hours including art methods courses must be completed on the IPFW campus.

Special Academic Regulations

Enrollment Policy To ensure that degree-seeking students are guaranteed priority registration in their classes, the following policies will be observed:

1. Students who are not progressing toward completion of degree requirements, including students who have graduated but wish to continue a program of study, will be reclassified as nondegree-seeking. These students' registrations will not be processed until the final week before the beginning of each semester. This policy will allow these students an opportunity to avail themselves of classroom opportunities when space is available.

2. All 400-level studio courses may be repeated up to a maximum of 18 credits. This long-standing policy is based upon the rationale that six semesters of study at that level in one discipline is sufficient for undergraduate training.
3. Independent-study courses are available for students with at least junior standing to pursue studio interests not served in other course offerings. Independent-study courses may be arranged with the appropriate faculty member on the basis of a viable course of study, a reasonable load for the instructor, and space availability. Priority will be given to degree-seeking students and to classes with regularly scheduled meetings.
4. Prerequisites for 200-level studio courses may be waived by the appropriate instructor during the week before classes begin, contingent upon space availability. Completion of all prerequisites is required to continue with classes beyond 6 credits in that discipline.

Credit Transfer If you transfer art credits from another college or university, you may be admitted to the B.F.A. or foundation program upon a successful portfolio presentation. To earn the B.F.A. at IPFW, you must fulfill all remaining requirements and complete a minimum of 24 credits of upper-division studio work at IPFW.

Time Limit If you do not complete degree requirements within seven years of matriculation, you may be required to meet the degree requirements specified in the current *Bulletin*.

Student Handbook A departmental student handbook, consisting of policies and regulations of the Department of Visual Arts, has been prepared as a guide for students. This handbook, available in the department office, provides detailed information about responsibilities and a sample curriculum for each degree. All fine arts majors are expected to be familiar with the contents of this handbook.

Bachelor of Fine Arts

Recommendations

Students should schedule classes within the B.F.A. program under the guidance of a visual arts advisor.

Residence Requirements

For a bachelor's degree, registration in and completion of at least 33 credits of resident course credit at the 200 level or above, including at least 15 credits at the 300 level or above, in courses applicable to the major.

Transferred Credit

All studio art and art history courses transferred from another institution or campus must be evaluated by an appropriate faculty member in the Fine Arts Program before they may be applied to a major in fine arts. See Transfer Credit Review.

Transfer Credit Review

Courses in studio art that have been transferred to IPFW from another institution or campus are not counted as part of the fine arts major unless they have been reviewed by the fine arts faculty. For a review of transferred studio credit, the student should provide the reviewer with a portfolio consisting of representative work in each area (e.g., painting, sculpture, etc.) for which transfer credit is desired. The portfolio should include both studies and finished work and be as complete as possible.

Minor in Fine Arts

Resident Requirements

Completion of at least 6 resident credits at the 200 level or above is required for the minor.

Special Academic Regulations

Enrollment Policy To ensure that degree-seeking students are guaranteed priority registration in their classes, the following policies will be observed:

1. Students who are not progressing toward completion of degree requirements, including students who have graduated but wish to continue a program of study, will be reclassified as nondegree-seeking. These students' registrations will not be processed until the final week before the beginning of each semester. This policy will allow these students an opportunity to avail themselves of classroom opportunities when space is available.
2. All 400-level studio courses may be repeated up to a maximum of 18 credits. This long-standing policy is based upon the rationale that six semesters of study at that level in one discipline is sufficient for undergraduate training.
3. Independent-study courses are available for students with at least junior standing to pursue studio interests not served in other course offerings. Independent-study courses may be arranged with the appropriate faculty member on the basis of a viable course of study, a reasonable load for the instructor, and space availability. Priority will be given to degree-seeking students and to classes with regularly scheduled meetings.
4. Prerequisites for 200-level studio courses may be waived by the appropriate instructor during the week before classes begin, contingent upon space availability. Completion of all prerequisites is required to continue with classes beyond 6 credits in that discipline.

Credit Transfer If you transfer art credits from another college or university, you may be admitted to the B.F.A. or foundation program upon a successful portfolio presentation. To earn the B.F.A. at IPFW, you must fulfill all remaining requirements and complete a minimum of 24 credits of upper-division studio work at IPFW.

Time Limit If you do not complete degree requirements within seven years of matriculation, you may be required to meet the degree requirements specified in the current Bulletin.

Student Handbook A departmental student handbook, consisting of policies and regulations of the Department of Visual Arts, has been prepared as a guide for students. This handbook, available in the department office, provides detailed information about responsibilities and a sample curriculum for each degree. All fine arts majors are expected to be familiar with the contents of this handbook.

Visual Arts/Visual Communication and Design Program

Department of Visual Arts, VCD Program

School of Visual and Performing Arts

Visual Arts Building 213 ~ 260-481-6709 ~ www.ipfw.edu/vpa

The mission of the Department of Visual Arts is to educate its students and the community in art, design, and appropriate technologies. Students may pursue the Bachelor of Fine Arts with concentrations in computer art, graphic design, and photography. A two-year program of study, an Associate of Science in commercial art, is also offered.

Both the B.F.A. and A.S. programs include general education, art/design history, and visual communication and design courses.

Special Academic Regulations

To ensure that degree-seeking students are guaranteed priority registration in their classes, the following policies will be observed:

1. Students who are not progressing toward completion of degree requirements, including students who have graduated but wish to continue a program of study, will be reclassified as nondegree-seeking. These students' registrations will not be processed until the final week before the beginning of each semester. This policy will allow these students an opportunity to avail themselves of classroom opportunities when space is available.
2. All 400-level studio courses may be repeated up to a maximum of 18 credits. This long-standing policy is based upon the rationale that six semesters of study at that level in one discipline is sufficient for undergraduate training.
3. Independent-study courses are available for students with at least junior standing to pursue studio interests not served in other course offerings. Independent-study courses may be arranged with the appropriate faculty member on the basis of a viable course of study, a reasonable load for the instructor, and space availability. Priority will be given to degree-seeking students and to classes with regularly scheduled meetings.
4. Prerequisites for 200-level and above studio courses may be waived by the appropriate instructor during the week before classes begin, contingent upon space availability.
5. Internships are available for students with at least junior standing to pursue learning opportunities in professional situations. Students may receive up to 6 credit hours for such experiential learning. Documentation concerning internship requirements can be found in the Department of Visual Arts office.

Credit Transfer

If a student transfers studio credits from another college or university, he/she may be admitted to the B.F.A. program upon successful portfolio presentation. To earn the B.F.A. at IPFW, the student must fulfill all remaining requirements and complete a minimum of 24 credits of upper-division studio work at IPFW.

Time Limit

If a student does not complete degree requirements within seven years of matriculation, he/she may be required to meet the degree requirements specified in the current Bulletin.

Student Handbook

A departmental student handbook, consisting of policies and regulations of the Department of Visual Arts, has been prepared as a guide for students. This handbook, available in the department office, provides detailed information about responsibilities and a sample curriculum for each degree. All VCD majors are expected to be familiar with the contents of this handbook.

Part 4: Program Descriptions

Area (General Education) Requirements

Area I: Linguistic and Numerical Foundations

Reading/Writing (3 credits)

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Listening/Speaking (3 credits)

- COM 114 - Fundamentals of Speech Communication Cr. 3.

Quantitative Reasoning (3 credits)

- MA 151 - Algebra and Trigonometry
- MA 101 - Mathematics for Elementary Teachers I Cr. 3.
- MA 149 - Basic and College Algebra Cr. 5.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- POLS Y395 - Quantitative Political Analysis Cr. 3.
- SPEA K300 - Statistical Techniques Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II: Natural and Physical Sciences

Course List:

- AST A105 - Stellar Astronomy
- AST L105 - Stellar Astronomy Laboratory
(1 credit)
- ANTH B200 - Bioanthropology Cr. 3.
- AST A100 - The Solar System Cr. 3.
- AST L100 - Solar System Laboratory Cr. 1.
(1 credit)
- BIOL 100 - Introduction to the Biological World Cr. 3.
- BIOL 250 - Women and Biology Cr. 3.
- BIOL 327 - Biology of Aging Cr. 3.
- CHM 104 - Living Chemistry Cr. 3.
- CHM 111 - General Chemistry Cr. 3.
- GEOG G107 - Physical Systems of the Environment Cr. 3.
- GEOG G109 - Weather and Climate Cr. 3.
- GEOL G100 - General Geology Cr. 3-5.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.

- GEOL G210 - Oceanography Cr. 3.
- GEOL L100 - General Geology Laboratory Cr. 1-2.
(1 credit)
- IDIS G102 - Freshman Seminar/Physical and Natural World Cr. 3.
- PHYS 105 - Sound and Music Cr. 3.
- PHYS 115 - Introduction to Lasers Cr. 3.
- PHYS 120 - Physics of Sports Cr. 3.
- PHYS 125 - Light and Color Cr. 3.
- PHYS 127 - Physics for Computer Graphics and Animation Cr. 3.
- PHYS 131 - Concepts in Physics I Cr. 3.
- PHYS 132 - Concepts in Physics II Cr. 3.
- PHYS 135 - The First Three Minutes Cr. 3.
- PHYS 136 - Chaos and Fractals Cr. 3.
- PHYS 210 - The Nature of Physical Science I Cr. 3.

Area III: The Individual, Culture, and Society

Course List:

- AFRO A210 - The Black Woman in America Cr. 3.
- ANTH E105 - Culture and Society Cr. 3.
- ANTH L200 - Language and Culture Cr. 3.
- ANTH P200 - Introduction to Prehistoric Archaeology Cr. 3.
- BUS W100 - Principles of Business Administration Cr. 3.
- CDFS 255 - Introduction to Couple and Family Relationships Cr. 3.
- COM 250 - Mass Communication and Society Cr. 3.
- COM 303 - Intercultural Communication Cr. 3.
- ECON E200 - Fundamentals of Economics Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.
- ENG L364 - Native American Literature Cr. 3.
- FOLK F101 - Introduction to Folklore Cr. 3.
- FOLK F111 - Introduction to World Folk Music Cr. 3.
- GERN G231 - Introduction to Gerontology Cr. 3.
- HIST H105 - American History I Cr. 3.
- HIST H106 - American History II Cr. 3.
- HIST H113 - History of Western Civilization I Cr. 3.
- HIST H114 - History of Western Civilization II Cr. 3.
- HIST H232 - The World in the 20th Century Cr. 3.
- HSRV 350 - Drugs and Society Cr. 3.
- IDIS G103 - Freshman Seminar/The Individual, Culture, and Society Cr. 3.
- IET 105 - Industrial Management Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.
- JOUR J110 - Foundations of Journalism and Mass Communication Cr. 3.
- LING L103 - Introduction to the Study of Language Cr. 3.

- NUR 309 - Transcultural Healthcare Cr. 3.
- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 268 - Elements of Law Cr. 3.
- PACS P200 - Introduction to Peace and Conflict Studies - Humanities Perspectives Cr. 3.
- POLS S103 - Introduction to American Politics - Honors Cr. 3.
- POLS S211 - Introduction to Law - Honors Cr. 3.
- POLS Y103 - Introduction to American Politics Cr. 3.
- POLS Y105 - Introduction to Political Theory Cr. 3.
- POLS Y107 - Introduction to Comparative Politics Cr. 3.
- POLS Y109 - Introduction to International Relations Cr. 3.
- POLS Y211 - Introduction to Law Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.
- PSY 120H - Elementary Psychology - Honors Cr. 3.
- PSY 225 - Stereotyping and Prejudice Cr. 3.
- PSY 240 - Introduction to Social Psychology Cr. 3.
- PSY 350 - Abnormal Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.
- SOC S163 - Social Problems Cr. 3.
- SPEA E162 - Environment and People Cr. 3.
- SPEA H120 - Contemporary Health Issues Cr. 1-3.
- SPEA J101 - The American Criminal Justice System Cr. 3.
- SPEA V170 - Introduction to Public Affairs Cr. 3.

Area IV: Humanistic Thought

Course List:

- CLAS C205 - Classical Mythology Cr. 3.
- CMLT C217 - Detective and Mystery Literature Cr. 3.
- COM 251 - Introduction to the Electronic Mass Media Cr. 3.
- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.
- ENG L108 - Introduction to Contemporary Literature Cr. 3.
- ENG L150 - Representative American Writers Cr. 3.
- ENG L250 - American Literature Before 1865 Cr. 3.
- ENG L251 - American Literature Since 1865 Cr. 3.
- ENG L301 - Critical and Historical Survey of English Literature I Cr. 3.
- ENG L302 - Critical and Historical Survey of English Literature II Cr. 3.
- FILM K101 - Introduction to Film Cr. 3.
- FINA A170 - Women Artists/The Visual Arts Cr. 3.
- FINA H101 - Art Appreciation Cr. 3.
- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.
- FINA H401 - Art Theory IV Cr. 3.
- FINA H415 - Art of Pre-Columbian America Cr. 3.

- FOLK F254 - Social History of Rock and Roll Cr. 3.
Because of significant overlapping content, students may count either FOLK F254 or MUS Z201 toward the Area IV requirement, but not both.
- FREN F310 - Topics in French Literature in Translation Cr. 3.
- FWAS 201 - Humanities I: The Ancient World Cr. 3.
- FWAS 202 - Humanities II: Foundations of the Modern Western World Cr. 3.
- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.
- HON H101 - Ideas and Human Experience Cr. 1-3.
- IDIS G104 - Freshman Seminar/ Humanistic Thought Cr. 3.
- INTL I208 - International Cinema Cr. 3.
with topic "Contemporary European Culture in Film"
- INTR 220 - Architecture and Urban Form Cr. 3.
- INTR 320 - Architecture and Urban Form in the Modern World Cr. 3.
- INTR 330 - Culture and Design: A Cross-Culture Comparison of Architecture Cr. 3
- MUS N101 - Music for the Listener - Honors Cr. 3.
- MUS Z101 - Music for the Listener Cr. 3.
- MUS Z105 - Traditions in World Music Cr. 3.
- MUS Z201 - History of Rock and Roll Music Cr. 3.
Because of significant overlapping content, students may count either FOLK F254 or MUS Z201 toward the Area IV requirement, but not both.
- MUS Z393 - History of Jazz Cr. 3.
- PHIL 110 - Introduction to Philosophy Cr. 3.
- PHIL 111 - Ethics Cr. 3.
- PHIL 112 - Religion and Culture Cr. 3.
- PHIL 120 - Critical Thinking Cr. 3.
- PHIL 150 - Principles of Logic Cr. 3.
- PHIL 312 - Medical Ethics Cr. 3.
- REL 301 - Islam Cr. 3
- THTR 201 - Theatre Appreciation Cr. 3.

Area V: Creative and Artistic Expression

Course List:

- VCD S105 - Introduction to Design
- ENG W103 - Introductory Creative Writing Cr. 3.
- ENG W203 - Creative Writing Cr. 3.
- ENGR 120 - Graphical Communications and Spatial Analysis Cr. 2.
- FINA N108 - Introduction to Drawing for Nonmajors Cr. 3.
- FINA S105 - Introduction to Design Cr. 3.
- FINA S165 - Ceramics for Nonmajors Cr. 3.
- JOUR J210 - Visual Communication Cr. 3.
- MUS L153 - Introduction to Music Therapy Cr. 3.
- MUS Z140 - Introduction to Musical Expression Cr. 3.

- THTR 117 - Jazz Dance I Cr. 2.
(2 credits)
- THTR 121 - Tap I Cr. 2.
(2 credits)
- THTR 125 - Ballet I Cr. 2.
- THTR 134 - Fundamentals of Performance Cr. 3.
- VCD N274 - Digital Imaging Cr. 3.

Area VI: Inquiry and Analysis

All inquiry and analysis courses have a prerequisite of "Completion of foundation skills requirement." Some courses may also have specific prerequisites. Inquiry and Analysis courses are not open to students with freshman status.

Course List:

- HIST H373 - History of Science and Technology I
- ANTH E335 - Ancient Civilizations of Mesoamerica Cr. 3.
- ANTH P370 - Ancient Cultures of South America Cr. 3.
- BIOL 304 - Major Ideas in Biology Cr. 3.
- BIOL 317 - Addictions: Biology, Psychology, and Society Cr. 3.
- BIOL 326 - Heredity: A Human Perspective Cr. 3.
- BIOL 349 - Environmental Science Cr. 3.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CMLT C333 - Romanticism Cr. 3.
- CMLT C337 - The 20th Century: Tradition and Change Cr. 3.
- COM 316 - Controversy in American Society Cr. 3.
- CS 306 - Computers in Society Cr. 3.
- ECON E306 - Undergraduate Seminar in Economics Cr. 3
- ECON E340 - Introduction to Labor Economics Cr. 3.
- ECON E346 - Economics of Gender Cr. 3.
- EDUC E346 - Discipline/Parenting for Young Children Cr. 3.
- EDUC K410 - Trends and Issues in Special Education Cr. 3.
- ENG L399 - Junior Honors Seminar Cr. 3.
- ENG W421 - Technical Writing Projects Cr. 1-3.
- FILM K390 - The Film and Society Cr. 3.
- FOLK F305 - Asian Folklore Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.
- GEOL G305 - Geologic Fundamentals in Earth Science Cr. 3-5.
- HIST A313 - Origins of Modern America Cr. 3.
- HIST D426 - History of Balkans: 1914 to Present Cr. 3.
- HON H300 - Interdepartmental Colloquium Cr. 1-3.
- HON H302 - Interdepartmental Colloquium Cr. 1-3.
- LING L303 - Introduction to Linguistic Analysis Cr. 3.
- LING L360 - Language in Society Cr. 3.
- MA 314 - Introduction to Mathematical Modeling Cr. 3.
- MUS L418 - Psychology of Music Cr. 3.

- MUS U410 - Creative Arts, Health, and Wellness Cr. 3.
- NUR 339 - Research in Healthcare Cr. 3.
- OLS 454 - Gender and Diversity in Management Cr. 3.
- OLS 486 - Leadership: Management of Change Cr. 3.
- PHIL 303 - History of Modern Philosophy Cr. 3.
- PHIL 304 - 19th Century Philosophy Cr. 3.
- PHYS 302 - Puzzles, Strategy Games, and Problem Solving in the Physical Sciences Cr. 3.
- PHYS 315 - Lasers in Art and Science Cr. 3.
- PHYS 325 - Scientific Computing Cr. 3.
- PHYS 326 - Physics for Computer Graphics and Animation II Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- POLS S401 - Studies in Political Science Cr. 3.
- POLS Y306 - State Politics in the United States Cr. 3.
- POLS Y307 - Indiana State Government and Politics Cr. 3.
- POLS Y335 - Western European Politics Cr. 3.
- POLS Y339 - Middle Eastern Politics Cr. 3.
- POLS Y340 - East European Politics Cr. 3.
- POLS Y350 - Politics of the European Union Cr. 3.
- POLS Y376 - International Political Economy Cr. 3.
- POLS Y401 - Studies in Political Science Cr. 3.
- POLS Y490 - Senior Seminar in Political Science Cr. 3.
- PSY 317 - Addictions: Biology, Psychology and Society Cr. 3.
- PSY 334 - Cross Cultural Psychology Cr. 3.
- PSY 345 - Psychology of Women Cr. 3.
- PSY 353 - Social and Personality Development in Children Cr. 3.
- PSY 362 - Human Development II: Adolescence Cr. 3.
- PSY 365 - Development of Gender Roles in Children Cr. 3.
- PSY 367 - Adult Development and Aging Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.
- PSY 371 - Death and Dying Cr. 3.
- PSY 381 - Psychology and Law Cr. 3.
- PSY 444 - Human Sexual Behavior Cr. 3.
- PSY 460 - Advanced Abnormal Psychology Cr. 3.
- SOC S309 - The Community Cr. 3.
- SOC S314 - Social Aspects of Health and Medicine Cr. 3.
- SOC S315 - Work and Occupations Cr. 3.
- SOC S316 - The Family Cr. 3.
- SOC S320 - Deviant Behavior and Social Control Cr. 3.
- SOC S325 - Criminology Cr. 3.
- SOC S328 - Juvenile Delinquency Cr. 3.
- SOC S360 - Topics in Social Policy Cr. 3.
- SPEA E400 - Topics in Environmental Studies Cr. 3.
- SPEA H371 - Human Resource Management in Healthcare Facilities Cr. 3.
- SPEA H422 - The Social Epidemics: AIDS, Violence, and Substance Abuse Cr. 3.
- SPEA V348 - Management Science Cr. 3.
- SPEA V371 - Financing Public Affairs Cr. 3.
- SPEA V373 - Human Resources Management in the Public Sector Cr. 3.
- SPEA V450 - Contemporary Issues in Public Affairs - Honors Cr. 1-3.

- STAT 340 - Elementary Statistical Methods II Cr. 3.
- THTR 470 - Theatre and Society I Cr. 3.
- THTR 471 - Theatre and Society II Cr. 3.
- WOST W301 - International Perspectives on Women Cr. 3.

Associate

Architectural Engineering Technology (A.S.)

Program: A.S.

Department of Civil and Architectural Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 229 ~ 260-481-6797 ~ www.caet.ipfw.edu

Mission

To provide employers and the public of northeast Indiana with educated, technologically equipped graduates, able to serve the varied construction industries (represented by architectural, civil, and construction engineering technologies, and interior design) in advancing the solutions to problems facing the public and private sector.

Goals

- To provide education of the traditional and returning adult student for career success in the construction industry
- To develop a respect for diversity and a knowledge of contemporary professional, societal, and global issues with an understanding of professional and ethical responsibilities.
- To be responsive to the ever-changing technologies of the construction industries.
- To instill in students the desire for and ability to engage in lifelong learning.

The breadth of the curriculum will provide leadership potential in addressing problems of the region, its people, and its industries.

This program helps you prepare for technical employment with architects, engineers, builders, materials suppliers, and related government agencies. You may work in drafting, architectural detailing, construction expediting, estimating, or sales. Graduates with experience hold jobs as senior drafting personnel, architectural job captains, construction supervisors, and contractors. This program also prepares you to work toward a bachelor's degree in construction engineering technology. The architectural engineering technology program is not a professional architecture program and will not lead to licensure as a registered architect.

The department offers related majors in civil engineering technology and construction engineering technology. All three programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, 410-347-770. The programs provide problemsolving skills, hands-on competency, and required state-of-the-art technical knowledge. Alumni of the department are employed in all areas of the building industry, including construction; architecture; interior design; civil engineering; land surveying; and state, county, and city governments.

To earn the A.S. with a major in architectural engineering technology, you must fulfill the requirements of IPFW (see Part 7); the College of Engineering, Technology, and Computer Science (see Part 3); and those described below:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations Credits: 11

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 159 - Precalculus Cr. 5.

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 3

- INTR 220 - Architecture and Urban Form Cr. 3.

ETCS General Distribution Requirements Credits: 11

- PHYS 218 - General Physics Cr. 4.
- PHYS 219 - General Physics II Cr. 4.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Core and Concentration (Major) Courses Credits: 40

- ARET 123 - Construction Graphic Communication Cr. 3.
- ARET 124 - Architectural Engineering Construction I Cr. 3.
- ARET 167 - Construction Systems and Materials Cr. 3.
- ARET 222 - Architectural Engineering Construction II Cr. 3.
- ARET 281 - Environmental Equipment for Buildings I Cr. 3.
- ARET 282 - Environmental Equipment for Buildings II Cr. 3.
- CET 104 - Elementary Surveying Cr. 3.
- CET 181 - Applied Structures I Cr. 3.
- CET 266 - Materials Testing Cr. 3.
- CET 283 - Applied Structures II Cr. 3.
- CNET 276 - Specs, Contracts, and Codes Cr. 3.
- CNET 280 - Quantity Estimating Cr. 3.
- INTR 121 - Freehand Sketching Cr. 3.

Total Credits: 68

Biology Concentration (A.A.)

Program: Concentration A.A.

Department of Biology

School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

In addition to the courses listed below, you must complete MA 153 or 229 for your IPFW General Education course in Quantitative Reasoning and BIOL 117 and CHM 115 (4 credits each) from IPFW General Education Area II. Your electives must include CS 107 or STAT 240 and a two-semester, 8-credit sequence in organic chemistry. If you plan to continue for a bachelor's degree, see Part 4 for B.S. requirements in biology, biology teaching, and medical technology.

Program Requirements

- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- CHM 116 - General Chemistry Cr. 4.

One of the following:

- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 219 - Principles of Functional Biology Cr. 3.

Business (A.S.B.)

Program: A.S.B.

SBMS Undergraduate Student Affairs Center

Richard T. Doermer School of Business and Management Sciences

Neff Hall 366 ~ 260-481-6472 ~ www.ipfw.edu/bms

Business Administration

The A.S.B. option in business administration is a preprofessional degree. The academic program leading toward the degree helps you prepare for careers at the operational level of business.

Admission

Freshman students are not eligible for direct admission to this program. If you satisfy IPFW admission requirements (see Part 7), you will be assigned to Academic Counseling and Career Services (Kettler 110E, 481-6814) until you have satisfactorily completed the first 30 credits toward this degree with a cumulative GPA of 2.00 or higher. Developmental courses (e.g., ENG R150 and W130; MA 109, 111, and 113) do not count toward these 30 credits.

All credits earned in the business administration option can be applied toward the Bachelor of Science in Business if you qualify for admission to that program.

Degree Requirements

You must satisfy the requirements of IPFW (see Part 7) and the Richard T. Doermer School of Business and Management Sciences (listed in this section) and earn a minimum of 63 credits in courses in (1) general education and (2) general business and economics. The final 15 consecutive credits required for this degree must be completed after you have been admitted to the A.S. program.

To remain in the program and graduate, you must earn a grade of C or better in all ENG writing courses and all business and economics courses, and maintain a cumulative GPA of 2.00 or better. Business and economics courses completed by correspondence are not applicable.

IPFW General Education Requirements (41 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

The following courses are required for admission to the business administration option program.

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
(or an approved substitute with placement beyond MA 153)

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

The following courses are required for admission to the business administration option program.

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Area IV—Humanistic Thought Credits: 6

- Additional credits in Area IV: 3
- PHIL 111 - Ethics Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Additional General Education Credits: 12

Business and Economics Requirements (22 credits)

- BUS A201 - Principles of Financial Accounting Cr. 3.
- BUS A202 - Principles of Managerial Accounting Cr. 3.
- BUS K211 - Spreadsheets for Business Cr. 1.
- BUS K212 - Introduction to Database Management Cr. 1.
- BUS K213 - Internet Literacy for Business Cr. 1.
- BUS L200 - Elements of Business Law Cr. 1.
- BUS W204 - Social, Legal, and Ethical Implications of Business Decisions Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.

Note

As the requirements for the Bachelor of Science in Business change, the requirements for the A.S.B. option in business administration are also likely to change in order to ensure that the credits in this option can be applied toward the B.S.B.

Total Credits: 63

Chemical Methods (A.S.)

Program: A.S.

Department of Chemistry

School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

The Associate of Science with a major in chemical methods program helps you prepare for a career as a chemical technician. Many industries have found it desirable to employ persons with a basic knowledge of chemistry. Such industries may be concerned with implementing or monitoring safe waste-disposal procedures, conducting standardized testing that uses routine chemical procedures, observing and measuring properties of materials following some type of compounding procedure, or recording data and making calculations that require some knowledge of chemistry. The A.S. with the major in chemical methods is a technical degree designed to meet such needs and is not recommended for students who wish to pursue a bachelor's program.

To earn the A.S. with a major in chemical methods, you must fulfill the requirements of IPFW (see Part 7) and complete the following courses. In addition, you must earn a grade of C or higher for each of the chemistry core courses.

Chemistry Core

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.

Supporting Courses

- Credits in computer science Credits: 3–4
- MA 151 Algebra and Trigonometry Credits: 5
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
- PHYS 218 - General Physics Cr. 4.
- PHYS 219 - General Physics II Cr. 4.

Electives Credits: 12–13

Total Credits: 61–63

Civil Engineering Technology (A.S.)

Program: A.S.

**Department of Civil and Architectural Engineering Technology
College of Engineering, Technology, and Computer Science**

To earn the A.S. with a major in civil engineering technology, you must fulfill the requirements of IPFW (see Part 7); the College of Engineering, Technology, and Computer Science (see Part 3); and those described below:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations Credits: 11

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 159 - Precalculus Cr. 5.

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

ETCS General Distribution Requirements (11 credits)

- PHYS 218 - General Physics Cr. 4.
- PHYS 219 - General Physics II Cr. 4.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Core and Concentration (Major) Courses (40 credits)

- ARET 123 - Construction Graphic Communication Cr. 3.
- ARET 124 - Architectural Engineering Construction I Cr. 3.
- ARET 167 - Construction Systems and Materials Cr. 3.
- CET 104 - Elementary Surveying Cr. 3.
- CET 108 - Route Surveying and Design Cr. 3.
- CET 181 - Applied Structures I Cr. 3.
- CET 206 - Construction Surveying Cr. 3.
- CET 209 - Land Surveying and Subdivision Cr. 3.
- CET 253 - Hydraulics and Drainage Cr. 3.
- CET 266 - Materials Testing Cr. 3.
- CNET 276 - Specs, Contracts, and Codes Cr. 3.
- CNET 280 - Quantity Estimating Cr. 3.

Total Credits: 68

Commercial Art (A.S.)

Program: A.S. in Commercial Art

Department of Visual Arts/Visual Communication and Design Program

School of Visual and Performing Arts

Visual Arts Building 213 ~ 260-481-6709 ~ www.ipfw.edu/vpa

This two-year program helps an individual prepare for entry-level employment opportunities in the applied arts, including illustration, layout, package design, display/exhibit design, and computer imaging. An exit portfolio review is required of all A.S. degree-seeking students. Upon completion of the A.S. program and a successful portfolio presentation, a student may choose to enter the B.F.A. program in computer art, graphic design, or photography.

To earn the A.S. in commercial art, students must fulfill the requirements of IPFW and the School of Visual and Performing Arts, complete curriculum requirements, and earn a grade of C or better in each required VCD course.

IPFW General Education Requirements Credits: 18

Area I—Linguistic and Numerical Foundations

See Part 2 General Education Requirements for approved courses

- *Quantitative reasoning course Credits: 3*
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.

Areas II–IV Credits: 9

See Part 2 General Education Requirements for approved courses

Foundations Credits: 12

- FINA P121 - Drawing Fundamentals I-II Cr. 3.
- FINA P122 - Drawing Fundamentals I-II Cr. 3.
- FINA P151 - Design Fundamentals I-II Cr. 3.
- FINA P152 - Design Fundamentals I-II Cr. 3.

Art History Credits: 6

- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.

Studio Credits: 27

- Studio electives in VCD or FINA Credits: 6
- FINA P226 - Painting Fundamentals II Credits: 3
- VCD P253 - Principles of Graphic Design I Cr. 3.
- VCD P254 - Principles of Graphic Design II Cr. 3.
- VCD P261 - Layout and Finished Art Cr. 3.
- VCD P271 - Illustration I Cr. 3.
- VCD P272 - Illustration II Cr. 3.
- VCD P273 - Computer Art and Design I Cr. 3.

Total Credits: 63

Computer Science (A.S.)

Program: A.S.

Department of Computer Science

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 125 ~ 260-481-6803 ~ www.cs.ipfw.edu

The A.S. program includes fundamental computing courses. All requirements may be applied to the B.S. program in computer science. Graduates typically continue in the B.S. program even though associate-degree recipients are qualified for employment in the computer field.

To earn the A.S. with a major in computer science, you must fulfill the requirements of IPFW (see Part 7) in addition to completing the courses listed below. Only grades of C or better in computer science courses may be applied to the degree or used to satisfy prerequisites. A maximum of 10 credits of D grades will be accepted in other courses.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
(or equivalent)

Major Requirements (20 credits)

- Credits in approved computer science courses at the 200 level or above except CS 306 Credits: 3
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- CS 271 - Computer Architecture Cr. 3.
- CS 274 - Data Communications Cr. 3.

Supporting Courses

- Credits in approved electives Credits: 14–16
- ENG W234 - Technical Report Writing Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.

Approved Laboratory Science sequence from the following Credits: 8-10

- BIOL 108 - Biology of Plants Cr. 4.
- BIOL 109 - Biology of Animals Cr. 4.
- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G211 - Introduction to Paleobiology Cr. 3.
- PHYS 201 - General Physics I Cr. 5.
- PHYS 202 - General Physics II Cr. 5.
- PHYS 220 - General Physics Cr. 4.
- PHYS 221 - General Physics Cr. 4.

And Select From:

- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.

Free Electives

- Credits in approved free electives sufficient to bring total to 64.

Total Credits: 64

Dental Hygiene (A.S.)

Program: A.S. in Dental Hygiene Department of Dental Education School of Health Sciences

Neff Hall 150 ~ 260-481-6837

This program involves one year of prerequisite courses and two years of dental hygiene courses. The program offers a full-time curriculum that is accredited by the Commission on Dental Accreditation of the American Dental Association.

An A.S. in Dental Hygiene prepares the student for a career as a dental-health professional who specializes in educational, preventive, and therapeutic oral healthcare. The program combines didactic, laboratory, and clinical courses. Graduates are eligible to take national, state, and regional licensing examinations. Dental hygienists who graduate with an associate degree can work in private dental offices, dental clinics and hospitals, public health facilities, and dental research facilities.

Admission

Admission to IPFW does not confer admission to this program. To be admitted to the A.S. program, the student must apply separately to IPFW and the dental hygiene program. Prospective dental hygiene students must first complete the prerequisite courses listed below or equivalent courses at another accredited college or university. These courses may not be graded on a pass/not-pass option. Remedial or developmental courses cannot be used to fulfill these prerequisite requirements. Students must maintain a GPA of 3.0 or higher. Because space in the dental hygiene program is limited, admission is competitive and an overall GPA of at least 3.50 or higher is recommended. Applications for selection into the dental hygiene program must be received no later than Feb. 1 of the year an applicant wishes to enter the program. The number of eligible applicants each year exceeds the number of spaces available.

Prerequisite Courses

To apply for the A.S. in dental hygiene program, you must complete the following prerequisite courses by June 1 with a grade of C or better:

Prerequisite courses must be completed by June 1 for admission into the class that begins each fall. A minimum prerequisite GPA of 3.0 is required for all applicants. Required courses may be repeated only once to improve the grade. The second grade for any course will be averaged with the first grade given for each course. Microbiology, human anatomy, and human physiology constitute a large portion of the Dental Hygiene National Board Examination each year. Therefore, credits in these three courses must be completed within five years of admission into the program. Credits in English composition, speech, psychology, sociology, and chemistry will be accepted for 10 years. Outdated courses must be retaken.

In addition, the only Advanced Placement (AP) courses accepted are English and psychology, if AP scores are 4 or higher. Transfer courses accepted by IPFW as “undistributed” must be evaluated by the department before they are accepted as prerequisite courses for dental hygiene.

- BIOL 203 - Human Anatomy and Physiology Cr. 4.

- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- CHM 111 - General Chemistry Cr. 3.
- CHM 112 - General Chemistry Cr. 3.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- NUR 106 - Medical Terminology Cr. 3.
(Recommended course, but not mandatory)
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Total Credits: 26-29

Program Requirements

After acceptance into the program, you must fulfill the requirements of IPFW (see Part 7) and Dental Education, and satisfactorily complete the following courses:

- DHYG H204 - Introduction to Periodontics I Credits: 1
- DHYG H250 - Introduction to Dental Ethics Credits: 1
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- DAST A112 - Dental and Medical Emergencies and Therapeutics Cr. 2.
- DHYG H211 - Head and Neck Anatomy Cr. 2.
- DHYG H214 - Oral Anatomy Cr. 3
- DHYG H215 - Pharmacology and Therapeutics (lecture) Cr. 2.
- DHYG H216 - Chemistry and Nutrition- First Year Cr. 2-3.
- DHYG H217 - Preventive Dentistry Cr. 2.
- DHYG H218 - Fundamentals of Dental Hygiene (lecture and lab) Cr. 3-5.
- DHYG H219 - Clinical Practice I Cr. 3-4.
- DHYG H221 - Clinical Dental Hygiene Procedures Cr. 1-2.
- DHYG H301 - Clinical Practice II Cr. 4-5.
- DHYG H302 - Clinical Practice III Cr. 4-5.
- DHYG H303 - Radiology (lecture and lab) Cr. 1-2.
- DHYG H304 - Oral Pathology Cr. 2.
- DHYG H305 - Radiology Clinic I Cr. 1.
- DHYG H306 - Radiology Clinic II Cr. 1.
- DHYG H307 - Radiology Clinic III Cr. 1.
- DHYG H308 - Dental Materials (lecture and lab) Cr. 2-3.
- DHYG H309 - Practice of Community Dental Hygiene Cr. 2.
- DHYG H320 - Practice Management, Ethics, and Jurisprudence Cr. 1-2.
- DHYG H321 - Periodontics Cr. 1-2.
- DHYG H344 - Senior Hygiene Seminar Cr. 1-2.
- DHYG H347 - Dental Public Health Cr. 3-4.

Total Credits: 61

Dental Laboratory Technology (A.S.)

Program: A.S. in Dental Laboratory Technology

Department of Dental Education

School of Health Sciences

Neff Hall 150 ~ 260-481-6837

The program offers a full-time and part-time curriculum that is accredited by the Commission on Dental Accreditation of the American Dental Association. The program helps you prepare to construct restorative dental appliances and prostheses prescribed by dentists. All courses are offered during daytime hours. Upon completion of the program, you are eligible to take the Comprehensive Examination and one written Specialty Examination of the National Board for Certification. A further practical examination may enable you to become a certified dental technician in our area of specialization.

Admission

Admission to IPFW does not confer admission to the program. You must apply separately to both IPFW and the dental laboratory technology program. You must contact the director of dental laboratory technology for specific information about the program. You may begin the program only in the fall.

Program Requirements

To earn an A.S. in dental laboratory technology, you must fulfill the requirements of IPFW (see Part 7) and the Department of Dental Education, and satisfactorily complete the following courses:

IPFW General Education Requirements (9 credits)

- ENG W131 - Elementary Composition I Cr. 3.

One of the following: Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Dental Technology Requirements (60–64 credits)

- DLTP D111 - History, Ethics, Organization Cr. 1.
- DLTP D112 - Dental Anatomy Cr. 4.
- DLTP D113 - Basic Physics, Chemistry, and Dental Materials Cr. 5.
- DLTP D114 - Occlusion Cr. 3.
- DLTP D125 - Crown and Bridge Prosthodontics I Cr. 3.
- DLTP D126 - Orthodontics/ Pedodontics Appliances I Cr. 3.
- DLTP D127 - Complete Denture Prosthodontics I Cr. 4.
- DLTP D128 - Partial Denture Prosthodontics I Cr. 3.
- DLTP D129 - Dental Ceramics I Cr. 3.
- DLTP D215 - Crown and Bridge Prosthodontics II Cr. 4.
- DLTP D216 - Orthodontics/ Pedodontics Appliances II Cr. 3.
- DLTP D217 - Complete Denture Prosthodontics II Cr. 3.
- DLTP D218 - Partial Denture Prosthodontics II Cr. 3.
- DLTP D219 - Dental Ceramics II Cr. 4.
- DLTP D221 - Dental Laboratory Business Procedures Cr. 2.
- DLTP D222 - Practical Laboratory Experience Cr. 4-6.

Credits from among the following: 8–10

- DLTP D225 - Specialty in Crown and Bridge Prosthodontics Cr. 4.
- DLTP D226 - Specialty in Orthodontics/ Pedodontics Cr. 4.
- DLTP D227 - Specialty in Complete Denture Prosthodontics Cr. 4.
- DLTP D228 - Specialty in Partial Denture Prosthodontics Cr. 4.
- DLTP D229 - Specialty in Dental Ceramics Cr. 4.

Total Credits: 69–73

Early Childhood Education (A.S.)

Program: A.S.

Department of Educational Studies

School of Education

Neff Hall 250 ~ 260-481-6441

The A.S. in early childhood education program provides preparation for workers in nursery schools, Headstart programs, and preschool programs. It does not lead to teacher licensure.

To earn the A.S. in early childhood education, you must fulfill the requirements of IPFW (see part 7) and the School of Education.

IPFW General Education Requirements Credits: 30

- AUS 115 - Introduction to Communicative Disorders Cr. 3.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
(a grade of B or better is required)
- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC H340 - Education and American Culture Cr. 2-3.
(corequisite with EDUC E317)
Credits: 3
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
(corequisite with EDUC W200)
Credits: 0
- EDUC Q200 - Introduction to Scientific Inquiry Cr. 1-3.
Credits: 1
- EDUC W200 - Using Computers for Education Cr. 1.
(a grade of B or better is required)
- ENG W131 - Elementary Composition I Cr. 3.
(a grade of B or better is required)
- MA 101 - Mathematics for Elementary Teachers I Cr. 3.
- MUS Z241 - Introduction to Music Fundamentals Cr. 2.

One of the following: Credits: 3

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

One of the following Credits:3

- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.

Professional Courses Credits: 34

(a grade of B or better is required in all Professional Courses)

- EDUC E317 - Practicum in Early Childhood Education Cr. 4.
- EDUC E330 - Infant Learning Environments Cr. 3.
- EDUC E333 - Inquiry in Mathematics and Science Cr. 3.
pre- or corequisite EDUC P249
- EDUC E335 - Introduction to Early Childhood Education Cr. 3.
- EDUC E336 - Play as Development Cr. 3.
pre- or corequisite EDUC P249
- EDUC E337 - Classroom Learning Environments Cr. 3.
pre- or corequisite EDUC P249
- EDUC E338 - The Early Childhood Educator Cr. 3.

- EDUC E346 - Discipline/Parenting for Young Children Cr. 3.
- EDUC E347 - Language Arts for Early Childhood Cr. 3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
(corequisite with EDUC P249)
(corequisite with EDUC E330)
(corequisite with EDUC E337)
Credits: 0
- EDUC P249 - Growth and Development in Early Childhood Cr. 3.

Electrical Engineering Technology (A.S.)

Program: A.S.

Department of Electrical and Computer Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

The A.S. program emphasizes course and lab work in electricity, electronics, computers, mathematics, science, and general academic areas that help prepare you for entry into the electrical and electronics fields as a technician and qualifies you for admission to the B.S. program.

To earn the A.S., you must fulfill the requirements of IPFW (see Part 7) and complete the following courses:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations Credits: 9

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
ENG W131 Grade C or above required.
- MA 153 - Algebra and Trigonometry I Cr. 3.

Area II—Natural and Physical Sciences Credits: 4

- PHYS 218 - General Physics Cr. 4.

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

Core and Concentration (Major) Courses Credits: 39

- ECET 107 - Introduction to Circuit Analysis Cr. 4.
- ECET 111 - Digital Circuits Cr. 4.
- ECET 114 - Introduction to Microcomputers Cr. 3.
- ECET 146 - Digital Circuits II Cr. 3.
- ECET 157 - Electronics Circuit Analysis Cr. 4.
- ECET 205 - Introduction to Microprocessors Cr. 4.
- ECET 207 - AC Electronics Circuit Analysis Cr. 4.
- ECET 231 - Electrical Power and Controls Cr. 4.
- ECET 264 - C Programming Language Applications Cr. 3.
- ECET 296 - Electronic System Fabrication Cr. 2-3.
- ECET 302 - Introduction to Control Systems Cr. 4.
- or
- ECET 303 - Communications I Cr. 4.

Required non-ECET technical course Credits: 2

- CPET 190 - Problem Solving with MATLAB Cr. 1-4.

Required Math Courses Credits: 10

- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
- MA 228 - Calculus for Technology II Cr. 3.

Total Credits: 68-69

English Concentration (A.A.)

Program: Concentration A.A. Department of English and Linguistics

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

In addition to the courses listed below, you must complete MA 153 or 168 or STAT 125 for your IPFW General Education course in Quantitative Reasoning, and ENG L202 as a course in General Education Area IV. If you plan to continue for a bachelor's degree with a major in English (see Part 4), you should take the secondyear foreign-language courses as electives for the A.A.

Program Requirements

- Credits in American literature Credits: 3
- Credits in British literature before 1700 Credits: 3
- Credits in British literature after 1700 Credits: 3
- Credits in language study Credits: 3
- Credits in ENG W203 or a 300-400-level English writing course Credits: 3

French Concentration (A.A.)

Program: Concentration A.A.

Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs

In addition to the courses listed below, you must complete MA 153 or 168 or STAT 125 for your IPFW General Education course in Quantitative Reasoning. If you plan to continue for a bachelor's degree with a major in French, see Part 4 for B.A. requirements.

Program Requirements

- FREN F203 - Second-Year French I Cr. 3.
- FREN F204 - Second-Year French II Cr. 3.
- FREN F317 - French Language Skills I Cr. 3.
- FREN F318 - French Language Skills II Cr. 3.

One of following Credits: 3

- FREN F326 - French in the Business World Cr. 3.
- FREN F330 - Introduction to Translating French and English Cr. 3.

General Studies (A.A.G.S.)

Program: A.A.G.S.

Division of Continuing Studies

Kettler Hall 145 ~ 260-481-6828 ~ www.edu/dcs/gsdp/

General Studies offers a wide variety of personalized degree options to the traditional and nontraditional student. Students may individually tailor their program to combine a substantial core of courses basic to a traditional university education and study in career-related areas. Within the flexible framework of degree requirements, students may design an undergraduate program that can more readily meet their career and personal-development goals than can a traditional major. Students will be encouraged and

assisted in developing a unique academic program complementing their individual interests, abilities, and intellectual and practical concerns.

In addition to taking advantage of the wide variety of daytime, evening, and weekend classes at IPFW, students may choose to earn credit toward their degree through correspondence study. Students may also earn credit by examination, and in some cases earn credit for significant, documentable self-acquired competencies when the learning outcomes have been comparable to those of university-level work. Consideration is given to all previously earned college credit from other accredited institutions. The Associate of Arts in General Studies and Bachelor of General Studies programs may also be tailored to the needs of those unable to study on campus during regularly scheduled periods. Both degrees may be completed online.

Both programs include courses in broad categories called required areas of learning (listed below) and elective credit that students may earn in any IPFW program. The required areas of learning provide broad exposure to the humanities, social sciences, and sciences, while the electives permit students to explore areas of interest, receive credit for prior university-level experiential learning, and tailor the degree to their individual needs. In each plan of study, students must demonstrate competency in each of the following areas: written communication (two courses), oral communication, mathematics, computer literacy, a diversity course, and a capstone course.

After students are admitted to a general studies degree program, students will develop a plan of study to meet their objectives. An advisor will provide assistance in this effort. For further information, refer to the current Indiana University School of Continuing Studies *General Studies Degree Bulletin*.

To earn an A.A.G.S., students must complete the following requirements:

IPFW General Education Requirements

Area I- Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Required Areas of Learning

General studies is a university-wide degree program, certified through Indiana University's School of Continuing Studies. The program follows the same curriculum requirements throughout Indiana University.

Arts and Humanities Credits: 6

(depending upon course selection for general education)

Afro-American Studies

Foreign Language

Classical Studies

History

Communication

Journalism

Comparative Literature

Music

English (except R150 and W130)

Philosophy

Film

Religion

Fine Arts

Theatre

Folklore

Visual Communication and Design

Science and Mathematics Credits: 9

(depending upon course selection for general education)

- ANTH B200 and E445 (only)
- Astronomy
- Biology
- Chemistry
- *Computer Science (includes BUS K211, K212, K213, K214, K215, and K216)
- ECON E270 (only)
- Entomology
- Forestry and Natural Resources
- GEOG G107, G109, G315 (only)
- Geology
- Horticulture
- Mathematics (except 109, 111, and 113)
- Physics
- PSY 120, 201, 310, 314, 329, and 416 (only)
- SOC S351 (only)
- SPEA K300 (only)
- Statistics

*required course

Social and Behavior Sciences Credits: 12

(depending upon course selection for general education)

- Anthropology
- Psychology
- Economics
- Sociology
- Geography
- SPEA J101 (only)
- Linguistics
- WOST W210 (only)
- Political Science
- 12 credits in each required area of learning, including courses from at least two departments in each area.

General Elective Courses Credits: 24

In consultation with an advisor, you are urged to concentrate electives in related areas.

Note

Students must complete at least 10 of the above credits after admission to the program. No more than 15 credits can be in any one subject. Courses in which a grade of D is earned will count only as electives. At least 15 credits must be taken within the IU system or as a Purdue student at IPFW.

Total Credits: 60

German Concentration (A.A.)

Program: Concentration A.A.

Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

In addition to the courses listed below, you must complete MA 153 or 168 or STAT 125 for your IPFW General Education course in Quantitative Reasoning. If you plan to continue for a bachelor's degree with a major in German, see Part 4 for B.A. requirements.

Program Requirements

- GER G203 - Second-Year German I Cr. 3.
- GER G204 - Second-Year German II Cr. 3.
- GER G318 - German Language Skills I Cr. 3-5.
Credits: 3

One of following Credits: 3

- GER G315 - Business German Cr. 3.
- GER G319 - German Language Skills II Cr. 3.

One of following Credits: 3

- GER G362 - Deutsche Landeskunde Cr. 3.
- GER G363 - Deutsche Kulturgeschichte Cr. 3.

History Concentration (A.A.)

Program: Concentration A.A.

Department of History

School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/hist

In addition to the courses listed below, you must complete MA 153 or 168 or STAT 125 for your IPFW General Education course in Quantitative Reasoning. If you plan to continue for a bachelor's degree with a major in history, see Part 4 for B.A. requirements.

Program Requirements

- Credits in upper-level American history Credits: 3
- Credits in upper-level European history Credits: 3
- Credits in upper-level Other World history Credits: 3
- HIST H105 - American History I Cr. 3.
- HIST H106 - American History II Cr. 3.
- HIST H113 - History of Western Civilization I Cr. 3.
- HIST H114 - History of Western Civilization II Cr. 3.

Hotel, Restaurant, and Tourism Management (A.S.)

Program: A.S.

Department of Consumer and Family Sciences

School of Health Sciences

Neff Hall 330 ~ 260-481-6562

This program helps you prepare for the responsibilities of supervising tourism businesses and operations of facilities that provide food service and lodging for large numbers of people. All courses required for this option apply to the Bachelor of Science in hospitality management at IPFW. To earn the A.S., you must satisfy the requirements of IPFW (see Part 7), earn a grade of C or better in each required ENG and HTM course, and complete the following requirements:

Special Academic Regulation for Students in Hotel, Restaurant, and Tourism Management

Correspondence and independent-study courses in the major are not accepted for credit in this program.

The academic-renewal option (see Part 7) is available.

IPFW General Education Requirements Credits: 18

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W232 - Introduction to Business Writing Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Business, Economics, and SupervisionCredits: 12

- BUS A201 - Principles of Financial Accounting Cr. 3.
- ECON E200 - Fundamentals of Economics Cr. 3.
- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 376 - Human Resources Issues Cr. 3.

HTM Core (formerly RHIT)Credits: 35

- FNN 203 - Foods Selection and Preparation Cr. 3.
- FNN 303 - Essentials of Nutrition Cr. 3.
- HTM 100 - Introduction to the Hospitality and Tourism Industry Cr. 1-3.
- HTM 181 - Lodging Management Cr. 3.
- HTM 191 - Sanitation and Health in Foodservice, Lodging, and Tourism Cr. 3.
- HTM 212 - Organization and Management in the Hospitality and Tourism Industry Cr. 3.
- HTM 291 - Quantity Food Production and Service Cr. 2-3.
- HTM 291L - Quantity Food Production and Service Labs Cr. 2.
- HTM 301 - Hospitality and Tourism Industry Practicum Cr. 1.
- HTM 311 - Procurement Management for Foodservice Cr. 3.
- HTM 341 - Cost Controls in Foodservice and Lodging Cr. 3.
- HTM 371 - Introduction to Tourism Cr. 3.
- HTM 491 - Beverage Management Cr. 2.

General Elective Courses Credits: 3

Total Credits: 68

Industrial Engineering Technology (A.S.)

Program: A.S

Department of Mechanical and Industrial Engineering

Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 205 ~ 260-481-6385 ~ www.mft.ipfw.edu

This program prepares graduates with knowledge, technical, analytical, and managerial skills necessary to develop, implement, and improve integrated systems in manufacturing and service industries that include people, materials, equipment, information, and energy. Graduates will be prepared for both immediate employment and continuation in the B.S. program.

To earn the A.S. with a major in industrial engineering technology, you must fulfill the requirements of IPFW (see Part 7) and complete the following courses, earning a grade of C or better in those courses that serve as prerequisites.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

Grade of C or better required for the following courses.

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 159 - Precalculus Cr. 5.

Area II—Natural and Physical Sciences

- PHYS 218 - General Physics Cr. 4.
Grade of C or better required
- PHYS 219 - General Physics II Cr. 4.

Area III—The Individual, Culture, and Society

- IET 105 - Industrial Management Cr. 3.
Grade of C or better required
- PSY 120 - Elementary Psychology Cr. 3.

Core and Concentration (Major) Courses

- ETCS 101 - Introduction to Engineering, Technology, and Computer Science Cr. 1.
- IET 204 - Techniques of Maintaining Quality Cr. 3.
Grade of C or better required
- IET 224 - Production Planning and Control Cr. 3.
- IET 257 - Ergonomics Cr. 3.
- IET 267 - Work Methods Design Cr. 3.
Grade of C or better required

- IET 310 - Plant Layout and Material Handling Cr. 3.
Grade of C or better required
- MET 104 - Technical Graphics Communications Cr. 3.
Grade of C or better required
- MET 106 - Analytical and Computational Tools in MET Cr. 2.
Grade of C or better required
- MET 180 - Materials and Processes Cr. 3.
Grade of C or better required
- MET 223 - Introduction to Computer- Aided Modeling and Design Cr. 3.
Grade of C or better required
- MET 335 - Basic Machining Cr. 3.
Grade of C or better required

Additional Required Technical Courses

Grade of C or better required for the following courses.

- CS 114 - Introduction to Visual Basic Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Required Support Courses

Grade of C or better required for the following course.

- ENG W234 - Technical Report Writing Cr. 3.

Total Credits: 64

Information Systems (A.S.)

Program: A.S.

Department of Computer Science

College of Engineering, Technology, and Computer Science

Kettler Hall 252 ~ 260-481-6803 ~ www.cs.ipfw.edu/

This program is focused on fundamental computing courses. All requirements may be applied to the B.S. program in information systems. Graduates of the A.S. program typically continue in the B.S. program, although they are qualified for employment opportunities in the computer field.

To earn the A.S. with a major in information systems, you must fulfill the requirements of IPFW (see Part 7) and complete the following courses. Only computer science courses in which you have earned a grade of C or better can be applied to the degree or used to satisfy prerequisites. A maximum of 10 credits of D grades will be accepted in other courses.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
(or equivalent)

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

Major Requirements Credits: 20

- CS elective (200+ level) approved by advisor Credits: 6
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- CS 274 - Data Communications Cr. 3.

One of the following Credits: 3

- CS 114 - Introduction to Visual Basic Cr. 3.
- CS 155 - COBOL Programming Cr. 3.

Supporting Courses

One of the following Credits: 3

- BUS A201 - Principles of Financial Accounting Cr. 3.
- ENG W234 - Technical Report Writing Cr. 3.
- MA 151 - Algebra and Trigonometry Cr. 5.
- MA 153 - Algebra and Trigonometry I Cr. 3.

- MA 175 - Introductory Discrete Mathematics Cr. 3.

One of the following Credits: 3

- BUS W100 - Principles of Business Administration Cr. 3.
- IET 105 - Industrial Management Cr. 3.

One of the following Credits: 3

- ECON E200 - Fundamentals of Economics Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.

Approved Laboratory Course Credits: 4

In Biology, Chemistry, Earth and Space Sciences, Or Physics

Approved Electives Credits: 7

Total Credits: 64

Interior Design (A.S.)

Program: A.S.

Department of Civil and Architectural Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 229 ~260-481-6797 ~ www.caet.ipfw.edu

The associate degree in interior design prepares you for employment as an interior design assistant, residential designer, kitchen design consultant, lighting and color consultant, drafts person, CAD operator, or product representative. You are prepared for these responsibilities through a blend of technical and practical design courses. The program is enhanced by overseas travel and study opportunities. Graduates will be prepared for immediate employment and continuation in the B.S. program.

To earn the A.S. with a major in interior design, you must satisfy the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3); earn a grade of C or better in ENG W131 and each required INTR course; and complete the requirements listed below:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations Credits: 12

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.

Area II—Natural and Physical Sciences Credits: 3

- PHYS 125 - Light and Color Cr. 3.

Area III—The Individual, Culture, and Society Credits: 3

- OLS 252 - Human Relations in Organizations Cr. 3.

Area IV—Humanistic Thought Credits: 3

- INTR 220 - Architecture and Urban Form Cr. 3.

Core and Concentration (Major) Courses Credits: 44

- ARET 123 - Construction Graphic Communication Cr. 3.
- ARET 124 - Architectural Engineering Construction I Cr. 3.
- ARET 167 - Construction Systems and Materials Cr. 3.
- ARET 281 - Environmental Equipment for Buildings I Cr. 3.
- CNET 276 - Specs, Contracts, and Codes Cr. 3.
- CNET 280 - Quantity Estimating Cr. 3.
- INTR 111 - Introduction to Interior Design Cr. 3.
- INTR 112 - Residential Interior Design II Cr. 3.
- INTR 121 - Freehand Sketching Cr. 3.
- INTR 123 - Perspective Drawing Cr. 3.
- INTR 131 - Decorative Materials and Accessories I Cr. 3.
- INTR 201 - CAD for Interior Design Cr. 3.
- INTR 206 - Portfolio and Professional Presentation Cr. 1
- INTR 241 - Lighting and Color Design Cr. 3.
- VCD F102 - Color Design Cr. 3.

Total Credits: 65

Labor Studies (A.S.)

Division of Labor Studies

Program Offered: A.S.L.S.

Kettler Hall G28 ~ 260-481-6831 ~ www.labor.iu.edu

To earn the Associate of Science in Labor Studies, you must fulfill the requirements of IPFW (see Part 7) and successfully complete the following courses:

Program Requirements

Credits from the Labor Studies Core Credits: 15

Credits from the following: 15

- LSTU L100 - Survey of Unions and Collective Bargaining Cr. 3.
- LSTU L101 - American Labor History Cr. 3.
- LSTU L110 - Introduction to Labor Studies: Labor and Society Cr. 3.
- LSTU L190 - The Labor Studies Degree Cr. 1.
- LSTU L200 - Survey of Employment Law Cr. 3.
- LSTU L201 - Labor Law Cr. 3.
- LSTU L203 - Labor and the Political System Cr. 3.
- LSTU L205 - Contemporary Labor Problems Cr. 3.
- LSTU L210 - Workplace Discrimination and Fair Employment Cr. 3.
- LSTU L220 - Grievance Representation Cr. 3.
- LSTU L230 - Labor and the Economy Cr. 3.
- LSTU L240 - Occupational Health and Safety Cr. 3.
- LSTU L250 - Collective Bargaining Cr. 3.
- LSTU L251 - Collective Bargaining Laboratory Cr. 1-3.
- LSTU L255 - Unions in State and Local Government Cr. 3.
- LSTU L260 - Leadership and Representation Cr. 3.
- LSTU L270 - Union Government and Organization Cr. 3.
- LSTU L280 - Union Organizing Cr. 3.

Required Areas of Learning for Labor Studies

Arts and Humanities

- Afro-American Studies
- Classical Studies
- Communication
- Comparative Literature
- English (except R150 and W130)
- Folklore
- Foreign Language
- History
- Journalism
- Music
- Philosophy
- Theatre
- Visual Arts

Sciences and Mathematics

- Anthropology (B200 and E445 only)
- Astronomy
- Biology
- Chemistry (except 100)
- Computer Science (includes BUS K200, K211, K212, K213, K214, K215, K216)
- Economics (E270 only)
- Entomology
- Forestry and Natural Resources
- Geography (G107 and G304 only)
- Geology
- Horticulture
- Mathematics (except 101, 102, 103, 109, 111, and 113)
- Physics
- Psychology (120, 201, 314, 333, 329, and 416 only)
- Sociology (S351 only)
- SPEA (K300 only)
- Statistics

Social and Behavior Sciences

- Anthropology
- Economics
- Geography
- Linguistics
- Political Science
- Psychology
- Sociology
- SPEA (J101 only)
- WOST (W210 only)

Additional credits in labor-studies courses Credits: 12

Arts and Humanities Area of Learning (12 credits)

- Credits in a second writing course Credits: 3
- Credits from at least two different subjects Credits: 6
- ENG W131 - Elementary Composition I Cr. 3.

Social and Behavioral Sciences Area of Learning Credits: 9

Credits, including one economics course (ECON E201 is recommended); courses in this area must be selected from at least two different subjects

Science and Mathematics Area of Learning Credits: 6

Credits, including one course in computer science (recommended). Science and mathematics courses must be selected from at least two different subjects

Electives Credits: 6

Note

You must earn a minimum of 10 credits after admission to labor studies and may apply toward the degree no more than 15 credits in a single subject other than labor studies. You must complete at least 12 credits while enrolled as an IU student.

Total Credits: 60

LPN (A.S.)

Program: LPN A.S.
Department of Nursing
School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/nursing

LPN Mobility

Admission to the nursing program is competitive. LPN applicants must meet the following requirements:

- Be admitted to IPFW as a degree-seeking student (see Part 7).

- Be a graduate of an NLNAC or equivalent accredited practical nursing program.
- Have a minimum GPA of 3.0 or higher upon graduation from the LPN program.
- A minimum GPA does not guarantee admission. The actual GPA necessary for admission varies with the GPA distribution of the applicant pool and the number of available seats for admission.
- Have completed anatomy and physiology within five years of application.
- Applicants are required to take a preadmission examination. The examination is administered on specific dates and times. Applicants pay a testing fee.

NOTE: Students who have previously been dismissed from the IPFW nursing program, or any nursing degree program, and return under the above LPN admission criteria will be dismissed from the program with a failure of any one required nursing course.

LPN–A.S. or LPN–B.S.

A student who earns a grade of C or better in NUR 117 and NUR 224 will be awarded an additional 13 credit hours for the following first-year nursing courses:

NUR 115	5 credits
NUR 130	2 credits
NUR 202	6 credits

Program Requirements

LPN A.S. Core Credits: 26

- NUR 103 - Professional Seminar I Cr. 2.
- NUR 117 - Associate Science Degree in Nursing Mobility Seminar Cr. 1.
- NUR 224 - Nursing IIIA (Medical-Surgical Nursing of Adults) Cr. 8.
- NUR 225 - Maternity Nursing Cr. 3.
- NUR 240 - Psychiatric Mental Health Nursing Cr. 4*.
- NUR 281 - Nursing Issues and Manager of Care Cr. 4.
- NUR 295 - Concepts in Critical Thinking Cr. 1.
- NUR 379 - Caring for Children and Families Cr. 3.

Supporting Courses Credits: 20

- Credits in elective Credits: 3
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- CHM 104 - Living Chemistry Cr. 3.
- FNN 303 - Essentials of Nutrition Cr. 3.
- PCTX 201 - Introductory Pharmacology Cr. 3-4.
- SOC S161 - Principles of Sociology Cr. 3.

Total Credits: 46

Mathematics Concentration (A.A.)

Program Offered: Concentration A.A.

Department of Mathematical Sciences

School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

The requirement of a Quantitative Reasoning course in IPFW General Education Area I is satisfied by the courses below. If you plan to continue for a bachelor's degree with a major in mathematics or mathematics teaching, see Part 4 for B.S. requirements.

Program Requirements

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 263 - Multivariate and Vector Calculus Cr. 4.

One of the following Credits: 3

- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 351 - Elementary Linear Algebra Cr. 3.

Mechanical Engineering Technology (A.S.)

Program: A.S.

Department of Mechanical and Industrial Engineering Technology

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 205 ~ 260-481-6385 ~ www.mft.ipfw.edu

This program prepares graduates with knowledge, problem-solving ability, and hands-on skills to enter careers in installation, manufacturing, testing, evaluation, computer-aided design, or maintenance of basic mechanical systems. Graduates will be prepared for both immediate employment and continuation in the B.S. program.

To earn the A.S. with a major in mechanical engineering technology, you must fulfill the requirements of IPFW (see Part 7) and complete the following courses, earning a grade of C or better in those courses that serve as prerequisites.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
Grade of C or better required
- ENG W131 - Elementary Composition I Cr. 3.
Grade of C or better required
- MA 159 - Precalculus Cr. 5.
Grade of C or better required

Area II—Natural and Physical Sciences

- PHYS 218 - General Physics Cr. 4.
Grade of C or better required
- PHYS 219 - General Physics II Cr. 4.

Area III—The Individual, Culture, and Society

- IET 105 - Industrial Management Cr. 3.
Grade of C or better required

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

Core and Concentration (Major) Courses

- ETCS 101 - Introduction to Engineering, Technology, and Computer Science Cr. 1.
- IET 204 - Techniques of Maintaining Quality Cr. 3.
- MET 104 - Technical Graphics Communications Cr. 3.
Grade of C or better required
- MET 106 - Analytical and Computational Tools in MET Cr. 2.
Grade of C or better required
- MET 180 - Materials and Processes Cr. 3.
Grade of C or better required
- MET 201 - Statics, Stress, and Strain Cr. 3.
Grade of C or better required
- MET 202 - Strength of Materials Cr. 3
Grade of C or better required
- MET 216 - Machine Elements Cr. 4.

Grade of C or better required

- MET 223 - Introduction to Computer- Aided Modeling and Design Cr. 3.
Grade of C or better required
- MET 330 - Introduction to Fluid Power Cr. 3.
- MET 335 - Basic Machining Cr. 3.
Grade of C or better required

Additional Required Technical Courses

- ECET 114 - Introduction to Microcomputers Cr. 3.
Grade of C or better required
- STAT 301 - Elementary Statistical Methods I Cr. 3.
Grade of C or better required

Required Support Courses

- ENG W234 - Technical Report Writing Cr. 3.
Grade of C or better required

Total Credits: 63

Nursing (A.S.)

Program: A.S.

Department of Nursing

School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/nursing

Program Requirements

A.S. Core Credits: 38

- NUR 103 - Professional Seminar I Cr. 2.
- NUR 115 - Nursing I: Introduction to Nursing Cr. 5.
- NUR 130 - Essential Clinical Skills Cr. 2.
- NUR 202 - Nursing II: Medical-Surgical Nursing of Adults Cr. 6.
- NUR 224 - Nursing IIIA (Medical-Surgical Nursing of Adults) Cr. 8.
- NUR 225 - Maternity Nursing Cr. 3.

- NUR 240 - Psychiatric Mental Health Nursing Cr. 4*.
- NUR 281 - Nursing Issues and Manager of Care Cr. 4.
- NUR 295 - Concepts in Critical Thinking Cr. 1.
- NUR 379 - Caring for Children and Families Cr. 3.

Supporting Courses Credits: 34

- NUR elective Credits: 3
- BIOL 203 - Human Anatomy and Physiology Cr. 4.
and
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- CHM 104 - Living Chemistry Cr. 3.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- FNN 303 - Essentials of Nutrition Cr. 3.
- PCTX 201 - Introductory Pharmacology Cr. 3-4.
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Total Credits: 72

Organizational Leadership and Supervision (A.S.)

Program: A.S.

Division of Organizational Leadership and Supervision

Neff Hall 288 ~ 260-481-6420 ~ www.ipfw.edu/ols

This program helps you prepare for leadership positions or for advancement in business and service organizations. The A.S. with a major in organizational leadership and supervision is of particular benefit to individuals who already possess technical skills and work experience and to students who complete the program along with a bachelor's degree in a technical or behavioral-science area.

To earn the A.S. with a major in organizational leadership and supervision, you must satisfy the requirements of IPFW (see Part 7) and the Division of Organizational Leadership and Supervision (see Part 3); earn a grade of C or better in ENG W131, ENG W233, and each OLS course; and complete the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.

Area II—Natural and Physical Sciences Credits: 3

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

OLS Core Classes

- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 268 - Elements of Law Cr. 3.
- OLS 274 - Applied Leadership Cr. 3.
- OLS 375 - Training Methods Cr. 3.
- OLS 376 - Human Resources Issues Cr. 3.

OLS Electives Credits: 6

Technical Support Requirements

- BUS A201 - Principles of Financial Accounting Cr. 3.
- CS 106 - Introduction to Computers Cr. 3.
- ECON E200 - Fundamentals of Economics Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- OLS 280 - Computer Applications for Supervisors Cr. 3.

Unrestricted Elective Courses Credits: 6

Total Credits: 63

Political Science Concentration (A.A.)

Program: Concentration A.A.

Department of Political Science

School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/pols

In addition to the courses listed below, you must complete MA 153 or MA 168 for your IPFW General Education course in Quantitative Reasoning. If you plan to continue for a bachelor's degree with a major in political science (see Part 4), you should take the second-year foreign-language courses as electives for the A.A.

Program Requirements

- Additional credits in political science Credits: 6
- Additional credits in political science, 200 level or above Credits: 6
- POLS Y205 - Elements of Political Analysis Cr. 3.
- POLS Y395 - Quantitative Political Analysis Cr. 3.

Psychology Concentration (A.A.)

Program: Concentration A.A.

Department of Psychology

School of Arts and Sciences

Neff Hall 388 ~ 260-481-6403 ~ www.ipfw.edu/psyc

In addition to the courses listed below, you must complete MA 153, MA 168, or STAT 125 as your IPFW General Education course in Quantitative Reasoning. If you plan to continue for a bachelor's degree with a major in psychology (see Part 4), you should take the second-year foreign-language courses as electives for the A.A.

Program Requirements

- Additional credits in psychology, 200 level or above Credits: 3
- PSY 100 - Introduction to the Science and Fields of Psychology Cr. 1.
- PSY 120 - Elementary Psychology Cr. 3.

Two of the following Credits: 6

- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- PSY 314 - Introduction to Learning Cr. 3.
- PSY 329 - Psychobiology II: Principles of Psychobiological Psychology Cr. 3.
- PSY 416 - Cognitive Psychology Cr. 3.

Two of the following Credits: 6

- PSY 235 - Child Psychology Cr. 3.
Credit not given for both PSY 235 and PSY 369
- PSY 240 - Introduction to Social Psychology Cr. 3.
- PSY 350 - Abnormal Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.
Credit not given for both PSY 235 and PSY 369
- PSY 420 - Introduction to Personality Theory Cr. 3.

Radiography (A.S.)

Program: A.S.R. School of Health Sciences

Neff Hall 142 ~ 260-481-6967

The radiography program encompasses both university courses and professional education. Professional education in radiography is a combination of classroom instruction and clinical experience. Under the supervision of radiologists and registered radiographers, you will progress from observing to assisting, and subsequently, to conducting radiographic examinations. In this manner, you will immediately utilize the theories and concepts presented in the classroom. The clinical experience associated with the professional-education portion of the program is conducted in the radiology departments of St. Joseph Hospital and Parkview Hospital in Fort Wayne.

All university prerequisite courses must be completed to be eligible for admission into the program. Applicants may be in the process of meeting the criteria when they apply for admission. Math and BIOL 203/204 prerequisite courses must have been completed within five years of admission to the professional program. Special circumstances will be evaluated by the admissions committee. Students must achieve a grade of C or better in math and in Human Anatomy and Physiology I and II and maintain a cumulative GPA of 2.7 or better in all prerequisite course work. Admission to this program is competitive and based on prerequisite GPA, personal interview, reference forms, and admission testing. Completion of course work alone does not ensure admission. You must apply directly to the directors of the Radiography Program at the Fort Wayne School of Radiography before March 1 for Summer II admission to the professional program.

To earn the A.S. in radiography, you must fulfill the requirements of IPFW (see Part 7) and the School of Health Sciences (see Part 3), and complete the following courses. Where school or department regulations are stricter than IPFW regulations, the stricter regulations apply. Students are required to maintain a cumulative GPA of 3.00 in the professional-education courses with a minimum grade of C in all courses. You must also consult a program director at the Fort Wayne School of Radiography to discuss admission to the program, 260-425-3990.

Prerequisite Courses (21 credits)

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- CS 106 - Introduction to Computers Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.

Professional Education Program (60 credits)

- AHLT R100 - Orientation to Radiologic Technology Cr. 2.
- AHLT R101 - Radiographic Procedures I Cr. 3-4.
- AHLT R102 - Principles of Radiography I Cr. 3.
- AHLT R181 - Clinical Experience in Radiography Cr. 1-6.
- AHLT R182 - Clinical Experience in Radiography Cr. 1-6.
- AHLT R185 - Medical Terminology Cr. 1.
- AHLT R200 - Pathology Cr. 2-3.
- AHLT R201 - Radiographic Procedures II Cr. 3-4.
- AHLT R202 - Principles of Radiography II Cr. 3.
- AHLT R205 - Radiographic Procedures III Cr. 3-4.
- AHLT R222 - Principles of Radiography III Cr. 3.
- AHLT R250 - Physics Applied to Radiology Cr. 2-4.
- AHLT R260 - Radiation Biology and Protection in Diagnostic Radiology Cr. 1-3.
- AHLT R281 - Clinical Experience in Radiography Cr. 1-6.
- AHLT R282 - Clinical Experience in Radiography Cr. 1-6.
- AHLT R283 - Clinical Experience in Radiography Cr. 1-6.
- AHLT R290 - Comprehensive Experience Cr. 1-8.

Total Credits: 81

Spanish Concentration (A.A.)

Program: Concentration A.A.

Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

In addition to the courses listed below, you must complete MA 153, MA 168, or STAT 125 for your IPFW General Education course in Quantitative Reasoning; ANTH L200 or LING L103 is recommended as a selection from IPFW General Education Area III. If you plan to continue for a bachelor's degree with a major in Spanish, see Part 4 for B.A. requirements.

Program Requirements

- SPAN S203 - Second-Year Spanish I Cr. 3.
- SPAN S204 - Second-Year Spanish II Cr. 3.
- SPAN S210 - Second-Year Spanish Composition Cr. 2-3.
- SPAN S317 - Spanish Conversation and Diction Cr. 3.

One of the following Credits: 3

- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.

One of the following Credits: 3

- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.

Women's Studies Concentration (A.A.)

Program: Concentration A.A. School of Arts and Sciences

Classroom-Medical Building 272 ~ 260-481-6711

Women's studies is based on the premise that the study of women's experiences, concerns, social roles, and creativity is essential to our knowledge of humankind and society. Feminist scholarship and theory provide the knowledge and analytical tools necessary for a gender-balanced perspective on our world, both past and present. The Women's Studies Program affords you the opportunity to pursue feminist scholarship on women and gender through a variety of interdisciplinary courses.

In addition to the courses listed below, you must complete MA 153, MA 168, or STAT 125 for your IPFW General Education course in Quantitative Reasoning. If you plan to continue for a bachelor's degree with a major in women's studies (see Part 4), you should take the second-year foreign-language courses as electives for the A.A.

Program Requirements

- Credits in WOST or cross-listed humanities/visual arts Credits: 3
- Credits in WOST or cross-listed social science/science Credits: 3
- Additional credits in WOST or cross-listed courses Credits: 6
- WOST W210 - Introduction to Women's Studies Cr. 3.

Baccalaureate

These programs are offered by Indiana University.

Agriculture (B.S.)

Program: Transfer Programs School of Arts and Sciences

Science Building G56 ~ 260-481-6304

At IPFW, you can complete the first two years of most of the 47 Bachelor of Science programs in agriculture and forestry, the two-year preveterinary program, up to two semesters of the forestry and natural resources programs, two semesters of the preagricultural and biological engineering program, and three semesters of an associate degree program in agriculture. All agriculture degrees must be completed at the West Lafayette campus of Purdue University. The forestry and natural resources and preveterinary programs are listed alphabetically later in this part of the *Bulletin*.

All degree programs in agriculture provide balanced curricula in computer science, mathematics, physical sciences, biological sciences, communication, social sciences, humanities, international understanding or emphasis, and business, plus technical preparation in the selected area of specialization. These programs recognize the need for graduates who are prepared to function effectively in the highly technical world of modern agriculture.

The Purdue University School of Agriculture is one of the nation's highest-ranked and most-prestigious institutions of agricultural teaching, research, extension, and international programs. The West Lafayette faculty annually prepares more than 2,000 undergraduate and 500 graduate students for careers in the world's food production and distribution systems.

The IPFW agriculture program coordinator will assist you with processing intercampus transfer forms and with arranging affiliation with the appropriate West Lafayette counseling coordinator for the degree program selected. For a listing of degree programs available and additional details about all programs, you should obtain a current Bulletin of the School of Agriculture from the IPFW agriculture dean's program coordinator.

The partial requirements stated below can be completed at IPFW and apply in most B.S. programs in agriculture. Because of professional objectives and accreditation requirements, significant variations exist in some programs such as agricultural and biological engineering, biochemistry, forestry and natural resources, and landscape architecture. Students selecting these options may be able to complete only one or two semesters at IPFW.

It is highly recommended that you keep in contact with the agriculture program coordinator to remain up to date on any changes in the course requirements and to make sure that therequirements of your particular major are being met.

You may complete the following courses at IPFW:

Mathematics and Basic Sciences

- Credits in computer science Credits: 3
- Additional credits in mathematics and basic science Credits: 5
- BIOL 108 - Biology of Plants Cr. 4.
- BIOL 109 - Biology of Animals Cr. 4.

- CHM 111 - General Chemistry Cr. 3.
- CHM 112 - General Chemistry Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Written and Speech Communication

- Credits in an additional oral or written communication course Credits: 3
- Credits in English composition Credits: 6
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Broadening Electives

- Credits from an approved list of international emphasis electives Credits: 0–3
- Credits from the following social sciences: anthropology, economics, education (limited courses), political science, psychology, and sociology Credits: 3–12
- Credits from the following humanities: education (limited courses), English literature (limited courses), foreign language and literatures, history, philosophy, and fine arts Credits: 6–15
- ECON E201 - Introduction to Microeconomics Cr. 3.

Agriculture Courses Offered at IPFW

(See your advisor about appropriate selections.)

- AGR 101 - Introduction to Agriculture and Purdue Cr. 1.
- ANSC 101 - Animal Agriculture Cr. 3.
- ANSC 221 - Principles of Animal Nutrition Cr. 3.
- ENTM 206 - General Applied Entomology Cr. 2.
- ENTM 207 - General Applied Entomology Laboratory Cr. 1.
- FNR 103 - Introduction to Environmental Conservation Cr. 3.
- HORT 101 - Fundamentals of Horticulture Cr. 3.

Anthropology (B.A.)

Program: B.A

Department of Sociology and Anthropology

School of Arts and Sciences

Kettler Hall G11A ~ 260-481-6272 ~ www.ipfw.edu/soca/anthhome.htm

Courses in anthropology provide an understanding of the nature of cultures and help you assess various explanations of human behavior; they also assist in the development of analytical and critical abilities. The curriculum is structured to include studies in the history and theory of anthropology, in four anthropological fields (ethnology, archaeology, bioanthropology, and linguistics), in at least two different world ethnographic areas, and in topical specializations. The program helps you prepare for graduate study, for teaching, and for careers in which the understanding of various cultures is an asset.

Although a minor is not required for the B.A. with a major in anthropology, an outside concentration is recommended. Fifteen credits in history, political science, psychology, or sociology support the concentration.

To earn the B.A. with a major in anthropology, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and satisfactorily complete the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following:

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following:

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences

See Part 2 General Education Requirements for approved courses

- Additional credits in Area II: 3
- ANTH B200 - Bioanthropology Cr. 3.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in ANTH) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- Additional credits in anthropology courses, including two courses selected from Group A courses and two courses selected from Group B courses, below Credits: 15
- ANTH B200 - Bioanthropology Cr. 3.
- ANTH E105 - Culture and Society Cr. 3.
- ANTH H445 - History and Theory of Anthropology Cr. 3.
- ANTH L200 - Language and Culture Cr. 3.
- ANTH P200 - Introduction to Prehistoric Archaeology Cr. 3.

Group A Regional Ethnography

- ANTH E301 - Plain People of Indiana Cr. 3.

- ANTH E310 - Introduction to the Cultures of Africa Cr. 3.
- ANTH E320 - Indians of North America Cr. 3.
- ANTH E321 - Peoples of Mexico Cr. 3.
- ANTH E330 - Indians of South America Cr. 3.
- ANTH E335 - Ancient Civilizations of Mesoamerica Cr. 3.
- ANTH E341 - Culture of China Cr. 3.
- ANTH E350 - European Ethnography Cr. 3.
- ANTH E479 - Indian Cultures of Peru Cr. 3.

Group B Topics in Anthropology

- ANTH E405 - Principles of Social Organization
- ANTH E406 - Anthropological and Documentary Films
- ANTH A495 - Individual Readings in Anthropology Cr. 1-4.
- ANTH A496 - Field Study in Anthropology Cr. 3-8.
- ANTH E102 - Anthropology of America Cr. 3.
- ANTH E400 - Undergraduate Seminar Cr. 3.
- ANTH E401 - Ecology and Culture Cr. 3.
- ANTH E402 - Gender in Cross-Cultural Perspective Cr. 3.
- ANTH E420 - Economic Anthropology Cr. 3.
- ANTH E445 - Medical Anthropology Cr. 3.
- ANTH E455 - Anthropology of Religion Cr. 3.
- ANTH E462 - Anthropological Folklore Cr. 3.
- ANTH E470 - Psychological Anthropology Cr. 3.
- ANTH P220 - Rise and Fall of Ancient Civilizations Cr. 3.
- ANTH P300 - Topics in Prehistory Cr. 3.
- ANTH P360 - Archaeology of North America Cr. 3.
- ANTH P361 - Prehistory of Eastern North America Cr. 3.
- ANTH P370 - Ancient Cultures of South America Cr. 3.
- ANTH P376 - Archaeology of Death Cr. 3.
- ANTH P382 - Archaeological Research Design Cr. 3.
- ANTH P399 - Undergraduate Seminar Cr. 3.
- ANTH P400 - Archaeological Methods and Techniques Cr. 2-4.
- ANTH P405 - Fieldwork in Archaeology Cr. 1-8.
- LING L103 - Introduction to the Study of Language Cr. 3.
- LING L360 - Language in Society Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Art Education (B.A.)

Program: B.A. (All-Grade Education Program)

Department of Visual Arts/Fine Arts Program

School of Visual and Performing Arts

Visual Arts Building 117 ~ 260-481-6705 ~ www.ipfw.edu/vpa/

This degree area enables you to teach elementary, middle school/junior high or high school. A 2.5 GPA in the content field and overall are required. This program is designed to give you a solid foundation in the arts as you come to understand the role of artist/educator. The program consists of three components.

Components:	Credits
I. General Education	39
II. Content Field	51
III. Professional Education	38
Total	128

If you already hold a degree in the fine arts, it is possible to obtain certification to teach through the addition of the appropriate education courses providing you meet general university requirements. See your advisor.

IPFW General Education Requirements Credits: 39

Area I—Linguistic and Numerical Foundations Credits: 12

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

One of the following:

(grade of C or higher)

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

- BIOL 100 - Introduction to the Biological World Cr. 3.
or
- BIOL 250 - Women and Biology Cr. 3.

One of the following: Credits: 3

- astronomy, chemistry, geology, physics, bioanthropology

Area III—The Individual, Culture, and Society Credits: 6

One of the following Credits: 3

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

One of the following cultural diversity classes Credits: 3

- AFRO A210 - The Black Woman in America Cr. 3.
- ANTH E105 - Culture and Society Cr. 3.
- ANTH L200 - Language and Culture Cr. 3.
- COM 303 - Intercultural Communication Cr. 3.
- ENG L364 - Native American Literature Cr. 3.

Area IV—Humanistic Thought Credits: 9

See Part 2 General Education Requirements for approved courses

- H111 may be double-counted as third course in this area.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses (No VCD or FINA courses)

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Visual and Performing Arts Requirements

II. Content Field:

Art History Credits: 6

- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.

Foundation Courses Credits: 12

- FINA P121 - Drawing Fundamentals I-II Cr. 3.
- FINA P122 - Drawing Fundamentals I-II Cr. 3.
- FINA P151 - Design Fundamentals I-II Cr. 3.
- FINA P152 - Design Fundamentals I-II Cr. 3.

2D Studio Elective Credits: 12

- VCD P273 - Computer Art and Design I Cr. 3.

Choose three courses from: Credits: 9

- FINA P223 - Figure Drawing I Cr. 3.
- FINA P225 - Painting Fundamentals I Cr. 3.
- FINA P241 - Printmaking Fundamentals Cr. 3.
- FINA P321 - Advanced Drawing I Cr. 3.
- VCD P243 - Photography Fundamentals Cr. 3.

3D Studio Elective Credits: 6

Choose two courses from the following:

- FINA P231 - Sculpture Fundamentals Cr. 3.
- FINA P233 - Metalsmithing Fundamentals Cr. 3.
- FINA P235 - Ceramics Fundamentals Cr. 3.

Studio Area of Concentration (300–400 level FINA or VCD) Credits: 15

Professional Education Credits: 38

- EDUA F300 - Topical Exploration in Education Cr. 1-3.

Credits: 2

Portfolio Checkpoint

- PPST (Pre-Professional Skills Test)
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
(Credits: 0, field experience required)
- EDUC W200 - Using Computers for Education Cr. 1.
Admission to the TEP is required for remaining courses.

Block 1: Teacher Education Credits: 9

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3

Portfolio Checkpoint

Block 2: Professional Education Credits: 12

- *Complete a limited criminal history check*
- EDUC M330 - Foundations of Art Education and Methods I Cr. 3
(field experience required)
- EDUC P254 - Educational Psychology for Teachers of All Grades Cr. 1-4.
(Credits: 3, field experience required)
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

Portfolio Checkpoint

- EDUC M430 - Foundations of Art Education and Methods II Cr. 3
(field experience required)

Student Teaching Credits: 13

- 10 week+6 week combination
(Complete an application for student teaching one year before intended student teaching semester)

- EDUC M501 - Lab/field Experience
- EDUC M482 - Student Teaching: All Grades Cr. 1-16.
Credits: 13

Final Portfolio Checkpoint

Take state subject area exam and meet requirement levels. Courses that must be taken in prescribed blocks.

Semester I

- EDUC M330 - Foundations of Art Education and Methods I Cr. 3
(fall)

Semester II

- EDUC M430 - Foundations of Art Education and Methods II Cr. 3
(spring)

Semester III

- EDUC M501 - Lab/field Experience
- EDUC M482 - Student Teaching: All Grades Cr. 1-16.

Admission to Teacher Education Program:

1) 2.5 GPA overall; 2.5 GPA in major

2) Submission of art portfolio for admission to art education

After the first two years have been completed

3) Completion of/or enrollment in prerequisites

B or higher required in these education classes

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- EDUC W200 - Using Computers for Education Cr. 1.
- ENG W131 - Elementary Composition I Cr. 3.

4) Minimum of C or higher in one of the following

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

5) Meet current PPST Test Qualification Scores

Biology (B.S.)

Program: B.S.

Department of Biology

School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

Special Regulation for Biology Majors

Time Limit All biology courses applied toward graduation must be completed within 10 years from the time the first biology course was completed.

To earn a B.S. with a major in biology, you must fulfill the requirements of IPFW and of the School of Arts and Sciences (see Parts 3 and 7); earn a GPA of 2.30 or higher in BIOL 117, 119, 217, 218, 219, and 491 and in A/B-elective courses in biology (listed below); and complete the following courses:

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- MA Mathematics course approved 3 for IPFW General Education Area I
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.

(credits included in Biology Core, below)

- CHM 115 - General Chemistry Cr. 4.
(credits included in Supporting Courses, below)

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis

One of the following Credits: 0

(credits included in Supporting Courses, below):

- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 321 - Analytical Chemistry I Cr. 4.

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 8

Core and Concentration (Major) Courses

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.

- BIOL 219 - Principles of Functional Biology Cr. 3.
- BIOL 491 - Senior Biology Seminar Cr. 1.

Supporting Courses

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CS 106 - Introduction to Computers Cr. 3.

One of the following sequences Credits: 8

- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- and
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.

Or Select Either:

- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- and
- CHM 261 - Organic Chemistry Cr. 3.

And:

- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- and
- CHM 262 - Organic Chemistry Cr. 3.

Calculus and Statistics

The following calculus and statistics course pattern is typical. Course substitutions are possible with advisor approval. Please note that most graduate programs require a full year of calculus.

- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- STAT 240 - Statistical Methods for Biology Cr. 3.
- STAT 340 - Elementary Statistical Methods II Cr. 3.

One of the following sequences Credits: 8–10

- PHYS 201 - General Physics I Cr. 5.

- and
- PHYS 202 - General Physics II Cr. 5.
- or
- PHYS 220 - General Physics Cr. 4.
- and
- PHYS 221 - General Physics Cr. 4.

General Elective Courses Credits: 16

In the interest of broadly training our majors, students are required to take at least one course with *laboratory* from each of the A and B elective course lists below. The A elective courses focus on topics regarding the intact organism and its interaction with the environment, and so are organismal, population, community, and ecosystem in nature. The B elective courses focus on processes acting within the organism, and thus detail molecular, cellular, and organ-system mechanisms.

A-Electives

(organismal, population, community, and ecosystem)

- BIOL 335 - Animal Behavior Cr. 3.
with laboratory
- BIOL 336 - Animal Behavior Lab Cr. 1.
- BIOL 345 - Vertebrate Biology Cr. 4.
with laboratory
- BIOL 434 - Marine Community Ecology Cr. 3.
with laboratory
- BIOL 445 - Aquatic Biology Cr. 3.
with laboratory
- BIOL 502 - Conservation Biology Cr. 3.
- BIOL 505 - Biology of Invertebrate Animals Cr. 3.
with laboratory
- BIOL 543 - Population Ecology Cr. 4.
with laboratory
- BIOL 556 - Physiology I Cr. 3.
with laboratory
- BIOL 558 - Laboratory in Physiology Cr. 2.
- BIOL 579 - Fate of Chemicals in the Environment Cr. 4.
with laboratory
- BIOL 580 - Evolution Cr. 3.
- BIOL 582 - Ecotoxicology Cr. 3.
- BIOL 586 - Topics in Behavior and Ecology Cr. 3.
- BIOL 592 - The Evolution of Behavior Cr. 3.
- BIOL 598 - Biology of Fish Cr. 4.
with laboratory
- ENTM 206 - General Applied Entomology Cr. 2.
with laboratory
- ENTM 207 - General Applied Entomology Laboratory Cr. 1.
- FNR 523 - Aquaculture Cr. 3.

B-Electives

(molecular, cellular, and organ-system)

- BIOL 215 - Basic Human Anatomy Cr. 4.
with laboratory
- BIOL 315 - Developmental Anatomy Cr. 4.
with laboratory
- BIOL 350 - Plant Physiology Cr. 4.
with laboratory
- BIOL 381 - Cell Biology Cr. 3.
with laboratory
- BIOL 382 - Laboratory in Cell Biology Cr. 1.
- BIOL 437 - General Microbiology Cr. 4.
with laboratory
- BIOL 506 - Human Molecular Genetics Cr. 3.
- BIOL 515 - Molecular Genetics Cr. 3.
- BIOL 516 - Molecular Biology of Cancer Cr. 3.
- BIOL 533 - Medical Microbiology Cr. 3.
- BIOL 540 - Biotechnology Cr. 3.
- BIOL 544 - Principles of Virology Cr. 3.
- BIOL 546 - Principles of Virology Laboratory Cr. 1.
- BIOL 559 - Endocrinology Cr. 3.
- BIOL 566 - Developmental Biology Cr. 3.
with laboratory
- BIOL 567 - Laboratory in Developmental Biology Cr. 1.

Or Select:

- BIOL 509 - Molecular Biology and Applications Cr. 3.
with laboratory
- BIOL 584 - Molecular Biology and Applications Laboratory Cr. 1.

Or Select:

- BIOL 537 - Immunobiology Cr. 3.
with laboratory
- BIOL 565 - Immunobiology Laboratory Cr. 1.

Free Electives

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Biology with Life Science Teaching Certification (B.S.)

Program: B.S.

Department of Biology

School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

The study of biology is an excellent way to prepare for a career in teaching because it provides the student with a solid foundation in science as well as in teaching. Students who plan to earn a B.S. with a major in biology with life science teaching certification should consult regularly with the coordinator of advising of the School of Education.

To earn a B.S. with a major in biology with life science teaching certification, you must fulfill the requirements specified by the IPFW School of Education and fulfill the requirements of IPFW and of the School of Arts and Sciences with the exception of the foreign language requirement (see Parts 3 and 7).

The School of Education requires that you first complete EDUA F300, EDUC W200/M101, and EDUC K201 before you are permitted to take professional education courses. Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

To be eligible to apply for teacher licensure, you must earn a GPA of 2.00 or higher in each general education area. You should work closely with your advisor to ensure completion of general education requirements for teacher licensing. You must also earn a cumulative GPA of 2.50 or higher in your major area and the professional education courses. Each professional education course must be completed with a grade of C or better.

Students who qualify may elect to do an independent project supervised by a faculty member. Credits earned in these courses (BIOL 295 or BIOL 595) cannot be used to satisfy A/B-elective requirements.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- MA Mathematics course approved for IPFW General Education Area I Credits: 3
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- CHM 115 - General Chemistry Cr. 4.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

- See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis

One of the following Credits: 0

(credits included in Supporting Courses, below)

- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 321 - Analytical Chemistry I Cr. 4.

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Core and Concentration (Major) Courses

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.
- BIOL 491 - Senior Biology Seminar Cr. 1.

Supporting Courses (40–42 credits)

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- CS 106 - Introduction to Computers Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- STAT 240 - Statistical Methods for Biology Cr. 3.
- STAT 340 - Elementary Statistical Methods II Cr. 3.

One of the following Credits: 4

- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 321 - Analytical Chemistry I Cr. 4.

One of the following sequences Credits: 8–10

- PHYS 201 - General Physics I Cr. 5.
- PHYS 202 - General Physics II Cr. 5.
- PHYS 220 - General Physics Cr. 4.
- PHYS 221 - General Physics Cr. 4.

General Elective Courses (10–12 credits)

You must complete at least one course with a laboratory in each group.

A-Electives

(organismal, population, community, and ecosystem)

- BIOL 335 - Animal Behavior Cr. 3.
course with a laboratory
- BIOL 336 - Animal Behavior Lab Cr. 1.
- BIOL 345 - Vertebrate Biology Cr. 4.
course with a laboratory
- BIOL 434 - Marine Community Ecology Cr. 3.
course with a laboratory
- BIOL 445 - Aquatic Biology Cr. 3.
course with a laboratory
- BIOL 502 - Conservation Biology Cr. 3.
- BIOL 505 - Biology of Invertebrate Animals Cr. 3.
course with a laboratory
- BIOL 543 - Population Ecology Cr. 4.
course with a laboratory

- BIOL 556 - Physiology I Cr. 3.
course with a laboratory
- BIOL 558 - Laboratory in Physiology Cr. 2.
- BIOL 579 - Fate of Chemicals in the Environment Cr. 4.
course with a laboratory
- BIOL 580 - Evolution Cr. 3.
- BIOL 582 - Ecotoxicology Cr. 3.
- BIOL 586 - Topics in Behavior and Ecology Cr. 3.
- BIOL 592 - The Evolution of Behavior Cr. 3.
- BIOL 598 - Biology of Fish Cr. 4.
course with a laboratory
- ENTM 206 - General Applied Entomology Cr. 2.
course with a laboratory
- ENTM 207 - General Applied Entomology Laboratory Cr. 1.
- FNR 523 - Aquaculture Cr. 3.

B-Electives

(molecular, cellular, and organ-system)

- BIOL 215 - Basic Human Anatomy Cr. 4.
course with a laboratory
- BIOL 315 - Developmental Anatomy Cr. 4.
course with a laboratory
- BIOL 350 - Plant Physiology Cr. 4.
course with a laboratory
- BIOL 381 - Cell Biology Cr. 3.
course with a laboratory
- BIOL 382 - Laboratory in Cell Biology Cr. 1.
- BIOL 437 - General Microbiology Cr. 4.
course with a laboratory
(required)
- BIOL 455 - Animal Physiology Cr. 3.
course with a laboratory
- BIOL 456 - Laboratory in Animal Physiology Cr. 1.
- BIOL 506 - Human Molecular Genetics Cr. 3.
- BIOL 515 - Molecular Genetics Cr. 3.
- BIOL 516 - Molecular Biology of Cancer Cr. 3.
- BIOL 533 - Medical Microbiology Cr. 3.
- BIOL 540 - Biotechnology Cr. 3.
- BIOL 544 - Principles of Virology Cr. 3.
- BIOL 546 - Principles of Virology Laboratory Cr. 1.
- BIOL 559 - Endocrinology Cr. 3.
- BIOL 566 - Developmental Biology Cr. 3.
course with a laboratory
- BIOL 567 - Laboratory in Developmental Biology Cr. 1.
- BIOL 569 - Cellular Neurobiology Cr. 3.

And Select:

Credits: 3-4

- BIOL 509 - Molecular Biology and Applications Cr. 3.
course with a laboratory
- BIOL 584 - Molecular Biology and Applications Laboratory Cr. 1.

And Select:

Credits: 3-4

- BIOL 537 - Immunobiology Cr. 3.
course with a laboratory
- BIOL 565 - Immunobiology Laboratory Cr. 1.

School of Education Requirements (35 credits)

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC M401 - Laboratory/Field Experience Cr.0-3.
and
- EDUC M449 - Methods of Teaching Science in the Secondary Schools Cr. 3.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.

And Select:

Credits: 3

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.

- PHIL 250 - Inductive Logic Cr. 3.

And Select:

Credits: 3

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

Total Credits: 131–135

Business (B.S.B.)

Program: B.S.B.

SBMS Undergraduate Student Affairs Center

Richard T. Doermer School of Business and Management Sciences

Neff Hall 366 ~ 260-481-6472 ~ www.ipfw.edu/bms

The faculty of the Richard T. Doermer School of Business and Management Sciences believe that quality in product and services, competitiveness in the global marketplace, and professionalism are critical to business success. As a result, the undergraduate business curriculum is designed around the principles of competitiveness, quality, and professionalism. Faculty members are dedicated to the development of business professionals who have the knowledge and skills to contribute effectively to their organizations and community.

A significant portion of the B.S.B. curriculum is composed of courses that provide a basic understanding of principles and practices involved in the management of business firms. Another large component, slightly more than half of your credits, is the general education core. These courses provide a well-rounded background necessary for success in a diverse business environment. Further, in order to ensure a balanced educational program, the business curriculum offers ample opportunities to take courses in a specific concentration area of interest to you.

The B.S.B. program is accredited by the International Association for Management Education (AACSB), which provides a voluntary mechanism of quality control. AACSB is the most prestigious business accrediting body in the nation. Only about one-quarter of all business schools in the nation possess this distinction.

Your initial courses are selected from introductory-level general education, business, and economics subjects. When you have qualified for admission to the B.S.B. program, additional opportunities are provided for in-depth studies in a variety of advanced business, management, and analytical subjects. These advanced studies help you prepare for positions of increasing executive responsibility in the business community.

Upon completion of the B.S.B. curriculum, you should:

- understand and be able to integrate fundamental principles of business theory and practice in a dynamic environment.
- have the analytical skills necessary for sound business decisions.
- be able to understand the relationship between the macro environment and business.

- be able to demonstrate effective communication and appreciate the role and importance of teamwork.
- be prepared for lifelong learning.
- understand the global, ethical, and cultural implications of business decisions.

At the time you are admitted to the B.S.B. program, you must declare a specialization in one of five concentrations: accounting, business economics, finance, management and administration, or marketing.

Admission

Beginning students who qualify for regular admission to IPFW are assigned to Academic Counseling and Career Services (ACCS, Kettler 110E, 481-6814) as prebusiness majors to complete the freshman degree requirements, consisting of 30 credits that apply to the degree, including BUS W100, ENG W131, COM 114, PSY 120, SOC S161, and if required, MA 153. Upon completion of these 30 credits with a minimum cumulative GPA of 2.00, you may then request a transfer to the Richard T. Doermer School of Business and Management Sciences to complete the requirements for admission to the degree program. High-school applicants who rank in the top half of their class and receive a score of 950 or higher on the SAT I are granted admission directly into the Richard T. Doermer School of Business and Management Sciences as prebusiness majors, to complete the freshman degree requirements.

To be admitted to the B.S.B. program, a formal application for admission is required; applications are available in Neff 366. Successful applicants will have a cumulative GPA of 2.00 or higher and will have completed at least 60 credits that apply toward the degree, including the courses listed below. Within this course listing, successful applicants will have (1) a grade of C or better in each course marked with an * and (2) a GPA of 2.30 or better (the grade for ENG W131 is not included in this GPA calculation).

Courses Specifically Required for Admission to the B.S.B. Program

Course Number and Title		Credits
BUS A201*	<i>Principles of Financial Accounting</i>	3
BUS A202*	<i>Principles of Managerial Accounting</i>	3
BUS K211*	<i>Spreadsheets for Business</i>	1
BUS K212*	<i>Introduction to Database Management</i>	1
BUS K213*	<i>Internet Access and Data Analysis for Business</i>	1
BUS L200*	<i>Elements of Business Law</i>	3
BUS W204*	<i>Social, Legal, and Ethical Implications of Business Decisions</i>	3
COM 114	<i>Fundamentals of Speech Communication</i>	3
ECON E201*	<i>Introduction to Microeconomics</i>	3
ECON E202*	<i>Introduction to Macroeconomics</i>	3
ECON E270*	<i>Introduction to Statistical Theory in Economics and Business I</i>	3
ENG W131*	Elementary Composition I (or equivalent)	3

ENG W233*	<i>Intermediate Expository Writing</i>	3
MA 229	<i>Calculus for the Managerial, Social, and Biological Sciences I</i>	3
PSY 120	<i>Elementary Psychology</i>	3
SOC S161	<i>Principles of Sociology</i>	3

Two additional rules apply to applicants' progress through the above courses:

1. No more than 6 credits of these courses may be repeated, and no course may be repeated more than once.
2. Both the original and the repeat grades earned in the above courses will be used to compute the admission GPA. This includes courses that you have taken or repeated at IPFW and other IU campuses. Students who transfer in more than 20 credits of the 42 credits listed will be admitted to the B.S.B. program on a probationary basis.

Note:

Bachelor's degree programs in business are offered at other Indiana University and IU-Purdue campuses. Since admission and graduation requirements vary among these campuses, you must meet the admission and graduation requirements of the campus from which you intend to graduate.

Enrollment in Business Courses Numbered 300 and Above

Unless you have attained junior class standing and met at least one of the following conditions, you are not permitted to enroll in a business course numbered 300 or above:

1. You have been admitted to the B.S.B. program at IPFW.
2. The course is a specified requirement for another bachelor's degree program or minor in which you are enrolled and you have completed all course prerequisites.
3. You have obtained written permission from the department through which the course is offered.

If you have enrolled and are not eligible, you will be withdrawn from the course.

B.S.B. REQUIREMENTS

Many of the courses required for this degree are sequenced, and many are offered only in alternate semesters. Therefore, regardless of the number of credits you may have earned prior to admission to the B.S.B. program, the school cannot guarantee that you will be able to complete all degree requirements in fewer than four regular semesters after admission.

To earn the B.S.B., you must complete a minimum of 123 credits as specified below. You must satisfy the requirements of IPFW (see Part 7) and the Richard T. Doerner School of Business and Management Sciences, earn a grade of C or better in those courses marked with an * above, earn a grade of C or better in each BUS and ECON course, and complete the four categories of requirements described below. Developmental courses (e.g., ENG R150, R151, and W130; MA 109, 111, and 113) do not apply to degree requirements.

Your final consecutive 30 credits must be taken at IPFW after you have been formally admitted to the B.S.B. program. No more than 50 percent of the 123 credits may be in business or economics courses.

IPFW General Education Requirements (53 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
(grade of C or better required)

One of the following Credits: 3

(grade of C or better required)

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Area IV—Humanistic Thought Credits: 6

- Additional credits in approved Area IV courses: 3
- PHIL 111 - Ethics Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

SBMS Requirements

- Additional credits in general education courses excluding business, economics, and OLS courses Credits: 8
- COM 323 - Business and Professional Speaking Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
(grade of C or better required)
- ENG W331 - Business and Administrative Writing Cr. 3.

- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
(if not used in Area I)

Core and Concentration (Major) Courses (46 credits)

Business Principles (16 credits)

- BUS A201 - Principles of Financial Accounting Cr. 3.
- BUS A202 - Principles of Managerial Accounting Cr. 3.
- BUS K211 - Spreadsheets for Business Cr. 1.
- BUS K212 - Introduction to Database Management Cr. 1.
- BUS K213 - Internet Literacy for Business Cr. 1.
- BUS L200 - Elements of Business Law Cr. 1.
- BUS W204 - Social, Legal, and Ethical Implications of Business Decisions Cr. 3.

Economics Principles (9 credits)

- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.
- ECON E270 - Introduction to Statistical Theory in Economics and Business I Cr. 3.

Management Processes (15 credits)

- BUS F301 - Financial Management Cr. 3.
- BUS J300 - Business Forum-Current Topics in Competitiveness, Quality, and Professionalism Presented by Business Leaders Cr. 0.
- BUS K321 - Management of Information Technology Cr. 3.
- BUS M301 - Marketing Management in a Competitive Environment Cr. 3.
- BUS P301 - Managing Operations in a Competitive Environment Cr. 3.
- BUS Z302 - Management of Organizations and People Cr. 3

Management Policy and Strategy (6 credits)

- BUS J401 - Policy and Strategy Cr. 3.
- BUS W430 - Leadership, Teamwork, and Group Dynamics in Organizations Cr. 3.

Area Concentration Credits: 12–24

12–24 credits in an Area Concentration: Upon admission to the B.S.B. program, you will select one of the following five concentrations, While you may change your concentration at any time during your degree program, changes made after your

junior year may result in exceeding the 123 credits required to complete your degree. Specific concentration requirements are listed below.

General Elective Courses Credits: 0–12

0–12 sufficient credits from either business or nonbusiness courses, excluding organizational leadership and supervision courses, to complement your professional and education objective and bring your degree total to at least 123 credits.

Total Credits: 123

Chemistry (B.S.)

Program: B.S.

Department of Chemistry

School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

The Bachelor of Science with a major in chemistry program is appropriate for premedical and pre dental students and as preparation for other careers. With appropriate electives and further education, this program allows you to combine chemistry with other fields of study that support careers such as geochemist, computer scientist, biologist, science librarian, science writer, chemical salesperson, patent attorney, industrial chemist, or environmental chemist.

To earn the B.S. with a major in chemistry, in addition to satisfying the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), you must complete the following courses with a cumulative GPA of 2.00 or higher in all CHM courses numbered 300 and above:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
(credits included in Supporting Courses, below)

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- CHM 115 - General Chemistry Cr. 4.
(credits included in Major Courses, below)
- PHYS 152 - Mechanics Cr. 5.
(credits included in Supporting Courses, below)

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in CHM) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Credits in a modern foreign language Credits: 8

Core and Concentration (Major) Courses

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 213 - Chemical Literature Cr. 1.
- CHM 218 - Introduction to Inorganic Chemistry Cr. 3.
- CHM 261 - Organic Chemistry Cr. 3.
- CHM 262 - Organic Chemistry Cr. 3.
- CHM 265 - Organic Chemistry Laboratory Cr. 2.
- CHM 266 - Organic Chemistry Laboratory Cr. 2.
- CHM 321 - Analytical Chemistry I Cr. 4.
- CHM 342 - Inorganic Chemistry Cr. 3.

- CHM 376 - Physical Chemistry Laboratory Cr. 2.
 - CHM 383 - Physical Chemistry Cr. 4.
 - CHM 384 - Physical Chemistry Cr. 2.
 - CHM 424 - Analytical Chemistry II Cr. 4.
- Not required for premedicine, pre dental, physical science teaching or chemistry teaching certification options.

One of the following Credits: 1

- CHM 495 - Seminar in Chemistry Cr. 1.
- CHM 496 - Advances in Chemistry I Cr. 0.
- CHM 497 - Advances in Chemistry II Cr. 1.

Supporting Courses

- Credits in CS 106, 160, or 210, or equivalent Credits: 3
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.

Free Electives

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Premedicine Option

In addition to the requirements for the B.S. with a major in chemistry, students pursuing the premedicine option must take the following courses:

- CHM 533 - Introductory Biochemistry Cr. 3
- CHM 534 - Introductory Biochemistry Cr. 3.

One of the following sequences Credits: 8

- BIOL 108 - Biology of Plants Cr. 4.
- BIOL 109 - Biology of Animals Cr. 4.
- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.

Additional Credits: 14

Predental Option

In addition to the requirements for the B.S. with a major in chemistry, students pursuing the predental option must take the following courses:

- CHM 533 - Introductory Biochemistry Cr. 3
- PSY 120 - Elementary Psychology Cr. 3.

One of the following sequences Credits: 8

- BIOL 108 - Biology of Plants Cr. 4.
- BIOL 109 - Biology of Animals Cr. 4.
- or
- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.

One of the following Credits: 4

- BIOL 215 - Basic Human Anatomy Cr. 4.
- BIOL 315 - Developmental Anatomy Cr. 4.

One of the following Credits: 4

- BIOL 216 - Basic Mammalian Physiology Cr. 4.
- BIOL 455 - Animal Physiology Cr. 3.
- BIOL 456 - Laboratory in Animal Physiology Cr. 1.

Additional Credits: 19

Chemistry (B.S.C.)

Program: B.S.C.

Department of Chemistry

School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

The Bachelor of Science in Chemistry (B.S.C.) program helps you prepare for graduate study in chemistry and chemistry-related careers in industry or government. Providing the best preparation for any career involving chemical research, this program fulfills recommendations of the Committee on Professional Training of the American Chemical Society, and graduates are certified to the ACS as having fulfilled its requirements.

To earn the B.S.C., you must fulfill all requirements for the B.S. with a major in chemistry (listed above) and complete the additional courses listed below.

Degree Requirements

- CHM 343 - Inorganic Chemistry Laboratory Cr. 1.
- CHM 533 - Introductory Biochemistry Cr. 3
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.

Additional credits from the following Credits: 3

or other departmentally approved advanced courses in chemical engineering, computer science; geochemistry, surface chemistry, mathematics, molecular biology, physics, and other allied fields

- CHM - courses numbered 300 and above
- CS 384 - Numerical Analysis Cr. 3.
- PHYS 550 - Introduction to Quantum Mechanics Cr. 3.

Additional Credits: 17

Biochemistry Option

The Bachelor of Science in Chemistry (B.S.C.) with biochemistry option helps you prepare for graduate study in biochemistry, and for biochemically oriented careers, particularly in the pharmaceutical and health industries. This program fulfills recommendations of the Committee on Professional Training of the American Chemical Society, and graduates are certified to the ACS as having fulfilled the requirements.

To earn the B.S.C. biochemistry option, you must fulfill all requirements for the B.S. with a major in chemistry (listed above) and complete the additional courses listed below.

- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- CHM 533 - Introductory Biochemistry Cr. 3
- CHM 534 - Introductory Biochemistry Cr. 3.
- CHM 535 - Biochemistry Laboratory Cr. 1.

The following is highly recommended:

- CHM 499 - Special Assignments Cr. 1-5

Additional Credits: 16-20

Chemistry with Chemistry Teaching Certification (B.S.)

Program: B.S.

Department of Chemistry

School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

To earn the B.S. with a major in chemistry teaching certification, you must fulfill all requirements (listed earlier) for the B.S. with a major in chemistry (except for foreign language, and you must complete ENG W233 as your writing requirement) and satisfactorily complete the courses listed below.

The School of Education requires that you first complete EDUA F300, EDUC W200/M101, and EDUC K201 before you are permitted to take professional education courses. Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

To be eligible to apply for teacher licensure, you must earn a GPA of 2.00 or higher in each general education area. You should work closely with your advisor to ensure completion of general education requirements for teacher licensing. You must also earn a cumulative GPA of 2.50 or higher in your major area and the professional education courses. Each professional education course must be completed with a grade of C or better.

School of Education Requirements

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 1
- EDUC W200 - Using Computers for Education Cr. 1.
Credits: 1

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M401 - Laboratory/Field Experience Cr.0-3.
Credits: 3
- EDUC M449 - Methods of Teaching Science in the Secondary Schools Cr. 3.
Credits: 3
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
Credits: 12
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
Credits: 3
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

And Select:

Credits: 3

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 3
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3

And Select:

Credits: 3

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
Credits: 3
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.
Credits: 3

Additional Credits: 37

Computer Art, Graphic Design, or Photography (B.F.A.)

Program: B.F.A.

Department of Visual Arts, VCD Program

School of Visual and Performing Arts

Visual Arts Building 213 ~ 260-481-6709 ~ www.ipfw.edu/vpa

The Bachelor of Fine Arts program includes general education, art/design history, visual art, and design studio courses and offers concentrations in computer art, graphic design, and photography.

Students are eligible for admission to the B.F.A. major after (1) completing 45 credits of study with a cumulative G.P.A. of 2.0 or higher and a grade of C or better in each VCD course and (2) receiving approval for admission by the faculty after a portfolio review. A student may not enroll in any course numbered 300 or above until these criteria are met.

Admission

The student must meet the requirements of IPFW. Admission to the Department of Visual Arts does not confer acceptance to the B.F.A. major. Newly admitted students are assigned to either a pre-B.F.A. or A.S. program. Later acceptance to the B.F.A. area of concentration is dependent upon satisfying the requirements of a portfolio review.

IPFW General Education Requirements Credits: 33

Area I—Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

- Quantitative reasoning course Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VII—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Art/Design History Credits: 12

- Credits in art/design history courses numbered 300 or above: 6
- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.

Area of Concentration: Studio and Electives Credits: 75

Computer Art

- Studio Electives in VCD or FINA Credits: 24
- FINA P151 - Design Fundamentals I-II Cr. 3.
- FINA P152 - Design Fundamentals I-II Cr. 3.
- PHIL 275 - The Philosophy of Art Cr. 3.
- PHYS 125 - Light and Color Cr. 3.
- VCD P243 - Photography Fundamentals Cr. 3.
- VCD P273 - Computer Art and Design I Cr. 3.
- VCD P356 - Package Design Cr. 3.
- VCD P357 - Display and Design Cr. 3.
- VCD P374 - Computer Art and Design II Cr. 3.
- VCD P475 - Computer Art and Design III Cr. 3.
- VCD P476 - Three-Dimensional Computer Modeling Cr. 3
- VCD P478 - Computer Animation Cr. 3.
- VCD P495 - Independent Study in Fine Arts Cr. 3.

Graphic Design

- Studio Electives in VCD or FINA Credits: 15
- FINA P226 - Painting Fundamentals II Credits: 3
- FINA P121 - Drawing Fundamentals I-II Cr. 3.
- FINA P122 - Drawing Fundamentals I-II Cr. 3.
- FINA P151 - Design Fundamentals I-II Cr. 3.
- FINA P152 - Design Fundamentals I-II Cr. 3.
- VCD P253 - Principles of Graphic Design I Cr. 3.
- VCD P254 - Principles of Graphic Design II Cr. 3.
- VCD P261 - Layout and Finished Art Cr. 3.
- VCD P271 - Illustration I Cr. 3.

- VCD P272 - Illustration II Cr. 3.
- VCD P273 - Computer Art and Design I Cr. 3.
- VCD P356 - Package Design Cr. 3.
- VCD P357 - Display and Design Cr. 3.
- VCD P371 - Illustration III Cr. 3.
- VCD P372 - Illustration IV Cr. 3.
- VCD P374 - Computer Art and Design II Cr. 3.
- VCD P453 - Graphic Design III Cr. 3.
- VCD P454 - Graphic Design IV Cr. 3.
- VCD P475 - Computer Art and Design III Cr. 3.
- VCD P495 - Independent Study in Fine Arts Cr. 3.
(or additional studio)

Photography

- Studio Electives in VCD or FINA Credits: 30
- FINA P151 - Design Fundamentals I-II Cr. 3.
- FINA P152 - Design Fundamentals I-II Cr. 3.
- PHIL 275 - The Philosophy of Art Cr. 3.
- PHYS 125 - Light and Color Cr. 3.
- VCD P273 - Computer Art and Design I Cr. 3.
- VCD P343 - Advanced Photography I Cr. 3.
- VCD P344 - Advanced Photography II Cr. 3.
- VCD P374 - Computer Art and Design II Cr. 3.
- VCD P443 - Advanced Photography III Cr. 3.
- VCD P444 - Advanced Photography IV Cr. 3.
- VCD P475 - Computer Art and Design III Cr. 3.
- VCD P495 - Independent Study in Fine Arts Cr. 3.
(or additional studio)

Senior Project Credits: 6

Majors must complete a senior project in the elected area of concentration. This two-semester course requires of the student a project incorporating an in-depth study and exploration of an artistic endeavor. The senior project culminates in a B.F.A. thesis exhibition that is judged by the faculty and reviewed by the public. An artist's statement and project description is a requirement of the exhibition installation.

- VCD P450 - Senior Project Cr. 3.

Computer Engineering (B.S.Comp.E.)

Program: B.S.Comp.E.
Department of Engineering
College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 327 ~ 260-481-6362 ~ www.engr.ipfw.edu

Degree Requirements

To earn the B.S.Comp.E. at IPFW, you must satisfy the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3); follow the special academic regulations that appear at the end of this section; and satisfactorily complete the following courses:

IPFW General Education Requirements Credits: 36

Area I—Linguistic and Numerical Foundations Credits: 10

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
*

Area II—Natural and Physical Sciences Credits: 9

- CHM 115 - General Chemistry Cr. 4.
- PHYS 152 - Mechanics Cr. 5.

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses with the exception of IET 105.

- ECON E201 - Introduction to Microeconomics Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses.

Area V—Creative and Artistic Expression Credits: 2

- ENGR 120 - Graphical Communications and Spatial Analysis Cr. 2.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses with the exception of MA 314, PHYS 325, and STAT 340.

Freshman Engineering Credits: 6

- ENGR 101 - Introduction to Engineering Cr. 1.
- ENGR 121 - Computer Tools for Engineers Cr. 2.
- ENGR 199 - Introduction to Engineering Design Cr. 3.

Mathematics and Science Requirements Credits: 22

- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- MA 275 - Intermediate Discrete Math Cr. 3.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.

Core and Concentration (Major) Courses Credits: 49

- ECE 293 - Measurement and Instrumentation Laboratory Credits: 2
- ECE 387 - Electronics and System Engineering through Robotics Credits: 3
- ECE 388 - Electronics and System Engineering through Robotics Lab Credits: 3
- ENGR 222 - Object Oriented Programming Credits: 1
- ECE 201 - Linear Circuit Analysis I Cr. 3.
- ECE 202 - Linear Circuit Analysis II Cr. 3.
- ECE 270 - Introduction to Digital System Design Cr. 4.
- ECE 301 - Signals and Systems Cr. 3.
- ECE 302 - Probabilistic Methods in Electrical Engineering Cr. 3.
- ECE 358 - Introduction to VHDL Programming Cr. 3.
- ECE 362 - Microprocessor Systems and Interfacing Cr. 4.
- ECE 368 - Data Structures Cr. 3.
- ECE 405 - Senior Engineering Design I Cr. 3.
- ECE 406 - Senior Engineering Design II Cr. 3.
- ECE 437 - Computer Design and Prototyping Cr. 4.
- ECE 495 - Selected Topics in Electrical Engineering Cr. 1-4.
Credits: 4
- ENGR 221 - C and C++ Programming for Engineers Cr. 2.

Required Mechanical Engineering Courses Credits: 3

- ME 200 - Thermodynamics I Cr. 3.

Technical Elective Courses Credits: 12

Computer Engineering Electives

- ECE 495X- Wireless and Mobile Communication Systems Credits: 3
- ECE 495Z- Cryptography and Network Security Credits: 3
- CS 360 - Software Engineering Cr. 3.
or ECE 351- Software Engineering Cr. 3
- ECE 373 - Numerical Methods for Engineers Cr. 3.
- ECE 418 - Introduction to Computer Graphics Cr. 3.
or CS 321- Introduction to Computer Graphics Cr. 3
- ECE 465 - Embedded Microprocessors Cr. 3.
- ECE 547 - Introduction to Computer Communication Networks Cr. 3.

Engineering Electives

- ECE 311 - Electric and Magnetic Fields Cr. 3.
- ECE 382 - Feedback System Analysis and Design Cr. 3.
- ECE 436 - Digital Signal Processing Cr. 3.
- ECE 442 - Transmission of Information Cr. 3.
- ECE 483 - Digital Control Systems - Analysis and Design Cr. 3.
- ME 301 - Thermodynamics II Cr. 3.

Mathematics and Science Technical Electives

- MA 417 - Mathematical Programming Cr. 3.
- MA 418 - Computations Laboratory for MA 417 Cr. 1.
- PHYS 322 - Optics Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 345 - Optics Laboratory I Cr. 1.
- PHYS 550 - Introduction to Quantum Mechanics Cr. 3.

Total Credits: 128

Computer Engineering Technology (B.S.)

Program: B.S.

Department of Electrical and Computer Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

The main objective of the B.S. CPET program is to provide training for individuals who are seeking careers in designing, developing, programming, and implementing computer-based electronic systems, with an emphasis on computer networking. These computer-based electronic systems include local and wide-area networking; use of the Internet for communications and control; telecommunications systems; industrial personal computer-based and programmable logic controller (PLC) based control and automation systems; embedded-controller based systems; PC network-based instrumentation; communications; and data acquisition, storage, and application.

The curriculum described below provides a technical education in the area of industrial and enterprise computer networking. The core provides the student with basic instruction in analog and digital circuit analysis with hands-on laboratory work. It also introduces the fundamentals of computer systems, programming, and applications using word processors, spreadsheets, and high and low-level computer languages. The specialization area provides in-depth knowledge about networking and the requisite hardware and software. Other required courses provide mathematical and communication skills, and sufficient knowledge of the industrial environment to perform effectively in the workplace. The B.S. also enables you to pursue advanced degrees in management, engineering, technology, or computer science.

To earn the degree, you must fulfill the requirements of IPFW (see Part 7) and of the College of Engineering, Technology, and Computer Science (see Part 3); and complete the following courses:

IPFW General Education Requirements

The courses listed below will meet the IPFW General Education Requirements required in the Bachelor of Science in computer engineering technology.

Area I—Linguistic and Numerical Foundations Credits: 9

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
ENG W131 Grade C or above required.
- MA 153 - Algebra and Trigonometry I Cr. 3.

Area II—Natural and Physical Sciences Credits: 7

- CHM 111 - General Chemistry Cr. 3.
- PHYS 218 - General Physics Cr. 4.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

- IET 105 - Industrial Management Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 6

- CPET 490 - Senior Design Project I Cr. 1.
- CPET 491 - Senior Design Project II Cr. 3.
- ENG W421 - Technical Writing Projects Cr. 1-3.
Credits:3

Core and Concentration (Major) Courses

CPET 490 and CPET 491 also counted as CPET core courses.

- CPET 213 - Web-based Analysis and Design Cr. 3.
or
- CPET 281 - Local Area Networks and Management Cr. 3.
- CPET 355 - Data Communications and Networking Cr. 4.
- CPET 364 - Networking Security Cr. 3.
- CPET 470 - Technology Project Management Cr. 3.
- CPET 490 - Senior Design Project I Cr. 1.
- CPET 491 - Senior Design Project II Cr. 3.
- ECET 107 - Introduction to Circuit Analysis Cr. 4.
- ECET 111 - Digital Circuits Cr. 4.
- ECET 114 - Introduction to Microcomputers Cr. 3.
- ECET 146 - Digital Circuits II Cr. 3.
- ECET 157 - Electronics Circuit Analysis Cr. 4.
- ECET 205 - Introduction to Microprocessors Cr. 4.
- ECET 207 - AC Electronics Circuit Analysis Cr. 4.
- ECET 264 - C Programming Language Applications Cr. 3.
- ECET 296 - Electronic System Fabrication Cr. 2-3.

And Select Either:

- CPET 181 - Computer Operating Systems Basics Cr. 3.
- ECET 234 - PC Systems I Cr. 3.

Required CPET/ECET/CS Elective Courses Credits: 11

Selected from the following:

- ECET 483 - Industrial Local Area Networks
- CPET 384 - Wide Area Network Design Cr. 3.
- CPET 493 - Wireless Networking Cr. 3
- CPET 494 - Java Programming Applications Cr. 4.
- CPET 495 - Web Engineering and Design Cr. 4.
- ECET 302 - Introduction to Control Systems Cr. 4.
- ECET 305 - Advanced Microprocessors Cr. 4.
- ECET 307 - Analog Network Signal Processing Cr. 4.
- ECET 346 - Advanced Digital Circuits Cr. 3-4.
- ECET 361 - Introduction to PLC and Pneumatic Systems Cr. 4.
- ECET 365 - Electrical Measurements Cr. 4.
- ECET 377 - Introduction to Fiber Optics Cr. 4.
- ECET 382 - C++ Object Oriented Programming for Industrial Applications Cr. 4.
- ECET 393 - Industrial Practice III Cr. 1-5.
- ECET 394 - Industrial Practice IV Cr. 1-5.
- ECET 395 - Industrial Practice V Cr. 1-5.
- ECET 403 - Communications II Cr. 4.
- ECET 411 - Microcomputer Interfacing Cr. 4.
- ECET 414 - Wireless Communications Cr. 4.
- ECET 434 - PC Systems II Cr. 4.
- ECET 466 - Windows Programming for Industrial Applications Cr. 4.
- ECET 473 - Microwaves Cr. 4.

Required Computer Sciences Courses Credits: 8

- MA 301 - Elementary Statistical Method I Credits: 3
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.

Required Math Courses Credits: 16

- MA 301 - Elementary Statistical Method I Credits: 3
- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
- MA 228 - Calculus for Technology II Cr. 3.

Required English Technical Writing Courses Credits: 3

- ENG W234 - Technical Report Writing Cr. 3.

Total Credits: 125-128

Minor in Computer Science (B.S. CPET) Credits: 20

(Only computer science courses in which you have earned a grade of C or better can be applied to the degree or used to satisfy prerequisites)

- Approved computer science courses at the 200 level or above Credits: 6
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- MA 175 - Introductory Discrete Mathematics Cr. 3.

Minor in Mathematics Credits: 20

- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
- MA 228 - Calculus for Technology II Cr. 3.
- MA 321 - Applied Differential Equations Cr. 3.
- or
- MA 351 - Elementary Linear Algebra Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.
- or
- STAT 511 - Statistical Methods Cr. 3.

Total Credits: 133

Computer Science (B.A.)

Program: B.A. in cooperation with the School of Arts and Sciences

Department of Computer Science

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 125 ~ 260-481-6803 ~ www.cs.ipfw.edu

Offered within a liberal-arts framework, the Bachelor of Arts program in computer science helps you prepare for graduate studies or a career in computer science.

To earn the B.A. with a major in computer science, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) in addition to the requirements below. No more than 10 credits with D grades can be applied to the degree. Of the mathematics courses numbered below 261, only MA 165, 166, and 175 apply toward the degree; statistics courses must be numbered 490 or higher to be counted.

Students interested in this program should contact the Department of Mathematical Sciences.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- Quantitative reasoning requirement satisfied by the mathematics courses below Credits: 0
- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- Credits in approved two-course sequence in biology, chemistry, geosciences, or physics Credits: 8–10

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis

- MA 314 - Introduction to Mathematical Modeling Cr. 3.
(credits included in Mathematics and Statistics Requirement, below)

School of Arts and Sciences Requirements (29 credits)

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution

- Credits in Social and Behavioral Sciences Credits: 3
- Credits in Humanities Credits: 3
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
satisfies the science and mathematics requirement (credits included in Mathematics and Statistics Requirement, below)

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Computer Science Core (32 credits)

- Credits in approved advanced computer science courses at the 300 or 400 level Credits: 6
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- CS 271 - Computer Architecture Cr. 3.
- CS 350 - Programming Language Design Cr. 3.
- CS 384 - Numerical Analysis Cr. 3.
- CS 486 - Analysis of Algorithms Cr. 3.
- CS 488 - Theory of Computation Cr. 3.

Mathematics and Statistics Requirement (20 credits)

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 314 - Introduction to Mathematical Modeling Cr. 3.

One of the following Credits: 3

- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 511 - Linear Algebra with Applications Cr. 3.

One of the following Credits: 3

- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Free Electives (9–11 credits)

- Credits in approved free electives sufficient to bring total to 124.

Total Credits: 124

Computer Science (B.S.)

Program: B.S.

Department of Computer Science

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 125 ~ 260-481-6803 ~ www.cs.ipfw.edu

This program helps you prepare for a career in computer science and for possible graduate study.

The B.S. program in computer science is accredited by the Computing Accreditation Commission of ABET Inc., 111 Market Place, Suite 150, Baltimore, MD 21202-402, telephone, 410-347-7700. In addition to satisfying the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3), you must complete the courses required for the A.S. with a major in computer science (see above) and the following additional courses. Only computer science courses in which you have earned a grade of C or better can be applied to the degree or used to satisfy prerequisites. A maximum of 10 credits of D grades (including any from the A.S.) will be accepted in other courses.

IPFW General Education Requirements Credits: 30

Area II—Natural and Physical Sciences Credits: 12

- Partially fulfilled by the two-semester laboratory science requirement of the associate degree. Must also have one or more of the following courses to make a total of 12 credit hours:

- GEOL G213
- BIOL 215 - Basic Human Anatomy Cr. 4.
- BIOL 250 - Women and Biology Cr. 3.
- BIOL 326 - Heredity: A Human Perspective Cr. 3.
- BIOL 350 - Plant Physiology Cr. 4.
- CHM 218 - Introduction to Inorganic Chemistry Cr. 3.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 261 - Organic Chemistry Cr. 3.
- GEOL G210 - Oceanography Cr. 3.
- GEOL G221 - Introductory Mineralogy Cr. 3-4.
- PHYS 302 - Puzzles, Games, and Problem Solving - Honors Cr. 3.
- PHYS 302 - Puzzles, Strategy Games, and Problem Solving in the Physical Sciences Cr. 3.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses
(CS 306 may not be used for this requirement)

Major Requirements Credits: 34

- CS 321 - Introduction to Computer Graphics Cr. 3.
- CS 350 - Programming Language Design Cr. 3.
- CS 360 - Software Engineering Cr. 3.
- CS 364 - Introduction to Database Systems Cr. 3.
- CS 460 - Capstone Design and Professional Practice Cr. 4.
- CS 472 - Operating Systems Design Cr. 3.
- CS 486 - Analysis of Algorithms Cr. 3.

Concentration Electives Credits: 12

- 9 credits must be selected from one concentration and 3 credits from a different concentration

Software Development Concentration

- CS 365 - Advanced Database Systems Cr. 3.
- CS 380 - Artificial Intelligence Cr. 3.
- CS 384 - Numerical Analysis Cr. 3.
- CS 474 - Compiler Construction Cr. 3.

Network and Visual Computing Concentration

- With permission of the advisor, up to 3 credits of concentration electives may be selected from among CS 492, CS 494, and CS 495.
- CS 368 - Human-Computer Interaction Cr. 3.
- CS 372 - Web Application Development Cr. 3.
- CS 374 - Computer Networks Cr. 3.
- CS 421 - Advanced Computer Graphics Cr. 3.

Supporting Courses

- Credits in approved advanced communication course Credits: 3
- Credits in additional approved electives sufficient to bring total to 124
- STAT 511 - Statistical Methods Cr. 3.

One of the following Credits: 3

- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 511 - Linear Algebra with Applications Cr. 3.

Total Credits: 124

Construction Engineering Technology (B.S.)

Program: B.S.

Department of Civil and Architectural Engineering Technology
College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 229 ~ 260-481-6797 ~ www.caet.ipfw.edu

Mission

To provide employers and the public of northeast Indiana with educated, technologically equipped graduates, able to serve the varied construction industries (represented by architectural, civil, and construction engineering technologies, and interior design) in advancing the solutions to problems facing the public and private sector.

Goals

- To provide education of the traditional and returning adult student for career success in the construction industry.
- To develop a respect for diversity and a knowledge of contemporary professional, societal, and global issues with an understanding of professional and ethical responsibilities.
- To be responsive to the ever-changing technologies of the construction industries.
- To instill in students the desire for and ability to engage in lifelong learning.

The breadth of the curriculum will provide leadership potential in addressing problems of the region, its people, and its industries.

This program is open to those who have earned an associate degree in architectural engineering technology or civil engineering technology, or the equivalent. Concentrations provide opportunities to prepare you for work in a specific segment of the construction industry. You may choose options in architectural engineering technology, civil engineering technology, or construction engineering technology. Graduates of this program take jobs with contractors, building-materials companies, utilities, architectural firms, engineering firms, and government agencies. The construction engineering technology program does not lead to licensure as a professional engineer or registered architect.

The program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, 410-347-7700. It provides you with problemsolving skills, hands-on competency, and required state-of-the-art technical knowledge. Alumni of the department are employed in all areas of the building industry, including construction; architecture; interior design; civil engineering; land surveying; and state, county, and city governments.

To earn the B.S. with a major in construction engineering technology, you must fulfill the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3), those for an associate degree in architectural engineering technology or civil engineering technology, and the additional requirements below:

IPFW General Education Requirements

Area II—Natural and Physical Sciences Credits: 4

- GEOL G100 - General Geology Cr. 3-5.
- GEOL L100 - General Geology Laboratory Cr. 1-2.

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

ETCS General Distribution Requirements Credits: 10

- ENG W234 - Technical Report Writing Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.

One of following:

- COM 315 - Speech Communication of Technical Information Cr. 3.
- COM 323 - Business and Professional Speaking Cr. 3.

Core and Concentration (Major) Courses Credits: 36

Major Courses

- XXXX xxx - Technical Selective Credits: 3
(department-approved courses)
- ARET 355 - Techniques of Land Utilization Cr. 3.
- CET 381 - Applied Structures III Cr. 4.
- CET 431 - Properties and Behavior of Soils Cr. 3.
- CNET 344 - Constructed Project Quality I Cr. 3.
- CNET 348 - Project Design Analysis Cr. 3.
- CNET 442 - Costs Estimating Cr. 3.
- CNET 443 - Engineered Construction Cr. 3.
- CNET 445 - Construction Project Management I Cr. 3.
- CNET 448 - Project Design Synthesis Cr. 3.
- CNET 457 - Construction Safety Cr. 3.

Structural Selectives Credits: 3

- CET 384 - Wood Construction
or
- CET 385 - Fundamentals of Reinforced Concrete Cr. 3.
or
- CET 482 - Steel Structure Design Cr. 3.

Subtotal Credits: 62

Credits from the A.S. CET or A.S. ARET: 68

Total Credits: 130

Economics (B.A.)

Program: B.A.

School of Arts and Sciences

Neff Hall 366B ~ 260-481-6483

Economics is the study of the rational allocation of scarce resources. The major seeks to develop those critical skills that help you understand and solve problems in a wide variety of circumstances. These analytical abilities are valuable in the business world and many professional disciplines such as law and social work.

This program is offered in close cooperation with the Department of Economics in the Richard T. Doermer School of Business and Management Sciences, which offers all economics courses required for the major.

To earn the B.A. with a major in economics, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), in addition to the following requirements. Correspondence courses, whether from Indiana University or elsewhere, may not be used to satisfy any of the requirements for this major.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3-4

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- Additional credits in Area III: 3
- ECON E201 - Introduction to Microeconomics Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in ECON) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution

Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Economics Core Courses (15 credits)

- Additional Economics Courses Credits: 12
Additional credits in 300/400-level economics courses or in other courses approved by the economics faculty; at least two of these courses must be completed at IPFW.
- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.
- ECON E270 - Introduction to Statistical Theory in Economics and Business I Cr. 3.
- ECON E321 - Intermediate Microeconomic Theory Cr. 3.
- ECON E322 - Intermediate Macroeconomic Theory Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Electrical Engineering (B.S.E.E.)

Program: B.S.E.E.

Department of Engineering

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 327 ~ 260-481-6362 ~ www.engr.ipfw.edu

To earn the B.S.E.E. at IPFW, you must satisfy the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3); follow the special academic regulations that appear at the end of this section; and satisfactorily complete the following courses:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations Credits: 10

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.

Area II—Natural and Physical Sciences Credits: 9

- CHM 115 - General Chemistry Cr. 4.
- PHYS 152 - Mechanics Cr. 5.

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses with the exception of IET 105.

- ECON E201 - Introduction to Microeconomics Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 2

- ENGR 120 - Graphical Communications and Spatial Analysis Cr. 2.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses with the exception of MA 314, PHYS 325, and STAT 340.

Freshman Engineering Credits: 6

- ENGR 101 - Introduction to Engineering Cr. 1.
- ENGR 121 - Computer Tools for Engineers Cr. 2.
- ENGR 199 - Introduction to Engineering Design Cr. 3.

Mathematics and Science Requirements Credits: 22

- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- MA 275 - Intermediate Discrete Math Cr. 3.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.

Core and Concentration (Major) Courses Credits: 48

- ECE 293 - Measurement and Instrumentation Laboratory Credits: 2
- ECE 387 - Electronics and System Engineering through Robotics Credits: 3
- ECE 388 - Electronics and System Engineering through Robotics Lab Credits: 1
- ENGR 222 - Object Oriented Programming Credits: 1

- ECE 201 - Linear Circuit Analysis I Cr. 3.
- ECE 202 - Linear Circuit Analysis II Cr. 3.
- ECE 208 - Election Devices and Design Laboratory Cr. 1.
- ECE 255 - Introduction to Electronic Analysis and Design Cr. 3.
- ECE 270 - Introduction to Digital System Design Cr. 4.
- ECE 301 - Signals and Systems Cr. 3.
- ECE 302 - Probabilistic Methods in Electrical Engineering Cr. 3.
- ECE 311 - Electric and Magnetic Fields Cr. 3.
- ECE 362 - Microprocessor Systems and Interfacing Cr. 4.
- ECE 382 - Feedback System Analysis and Design Cr. 3.
- ECE 405 - Senior Engineering Design I Cr. 3.
- ECE 406 - Senior Engineering Design II Cr. 3.
- ECE 436 - Digital Signal Processing Cr. 3.
- ENGR 221 - C and C++ Programming for Engineers Cr. 2.

Required Mechanical Engineering Courses Credits: 3

- ME 200 - Thermodynamics I Cr. 3.
or
- ME 250 - Statics Cr. 3.

Technical Elective Courses Credits: 12

Electrical Engineering Electives

- ECE 495Y - RF Circuits Credits: 3
- ECE 495X - Wireless and Mobile Communication Systems Credits: 3
- ECE 373 - Numerical Methods for Engineers Cr. 3.
- ECE 442 - Transmission of Information Cr. 3.
- ECE 443 - Communications Laboratory Cr. 1.
- ECE 460 - Power Electronics Cr. 3.
- ECE 465 - Embedded Microprocessors Cr. 3.
- ECE 483 - Digital Control Systems - Analysis and Design Cr. 3.

Engineering Electives

- ECE 351 - Software Engineering Credits: 3
- ECE 358 - Introduction to VHDL Programing Cr. 3.
- ECE 368 - Data Structures Cr. 3.
- ECE 418 - Introduction to Computer Graphics Cr. 3.
or CS 321- Introduction to Computer Graphics Cr. 3
- ECE 437 - Computer Design and Prototyping Cr. 4.
- ECE 495 - Selected Topics in Electrical Engineering Cr. 1-4.

ECE 495 - Embedded Operating Systems Credits: 4
ECE 495Z - Cryptography and Network Security Credits: 3

- ECE 547 - Introduction to Computer Communication Networks Cr. 3.
- ME 301 - Thermodynamics II Cr. 3.

Math and Science Technical Electives

- MA 417 - Mathematical Programming Cr. 3.
- MA 418 - Computations Laboratory for MA 417 Cr. 1.
- PHYS 322 - Optics Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 345 - Optics Laboratory I Cr. 1.
- PHYS 550 - Introduction to Quantum Mechanics Cr. 3.

Total Credits: 127

Electrical Engineering Technology (B.S.)

Program: B.S.

Department of Electrical and Computer Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

The B.S. helps you prepare for a career in an advanced technical position in communications, electronics, control systems, manufacturing, electrical power, microprocessors, or embedded software programming in Visual Basic, C/Embedded C, C++, assembly language, and/or Java. The B.S. also enables you to pursue advanced degrees in management, engineering, technology, or computer science.

To earn the degree, you must complete the A.S. with a major in electrical engineering technology (see above); fulfill the requirements of IPFW (see Part 7) and of the College of Engineering, Technology, and Computer Science (see Part 3); and complete the following courses:

IPFW General Education Requirements

The courses listed below will meet the IPFW General Education Requirements required in the Bachelor of Science in electrical engineering technology.

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.

ENG W131 Grade C or above required.

- MA 153 - Algebra and Trigonometry I Cr. 3.

Area II—Natural and Physical Sciences

- CHM 111 - General Chemistry Cr. 3.
- PHYS 218 - General Physics Cr. 4.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses Credits: 3

- IET 105 - Industrial Management Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 6

- ECET 490 - Senior Design Project, Phase I Cr. 1-2.
- ECET 491 - Senior Design Project, Phase II Cr. 2-5.
- ENG W421 - Technical Writing Projects Cr. 1-3.

Core and Concentration (Major) Courses

ECET 490 and ECET 491 also counted as ECET core courses.

- ECET 302 - Introduction to Control Systems Cr. 4.
or
- ECET 303 - Communications I Cr. 4.
- ECET 307 - Analog Network Signal Processing Cr. 4.
- ECET 357 - Real-Time Digital Signal Processing Cr. 4.
- ECET 470 - Technology Project Management Cr. 3.
- ECET 490 - Senior Design Project, Phase I Cr. 1-2.
- ECET 491 - Senior Design Project, Phase II Cr. 2-5.

Required ECET/CPET elective courses selected from the following:

- ECET 483 - Industrial Local Area Networks
- CPET 281 - Local Area Networks and Management Cr. 3.
- CPET 364 - Networking Security Cr. 3.
- CPET 384 - Wide Area Network Design Cr. 3.
- CPET 493 - Wireless Networking Cr. 3
- CPET 494 - Java Programming Applications Cr. 4.
- CPET 495 - Web Engineering and Design Cr. 4.
- ECET 305 - Advanced Microprocessors Cr. 4.
- ECET 312 - Power Electronics Cr. 4.
- ECET 331 - Generation and Transmission of Electrical Power Cr. 4.
- ECET 346 - Advanced Digital Circuits Cr. 3-4.
- ECET 348 - Project Design Analysis Cr. 3.
- ECET 361 - Introduction to PLC and Pneumatic Systems Cr. 4.
- ECET 365 - Electrical Measurements Cr. 4.
- ECET 372 - Process Control Cr. 4.
- ECET 382 - C++ Object Oriented Programming for Industrial Applications Cr. 4.
- ECET 393 - Industrial Practice III Cr. 1-5.
- ECET 394 - Industrial Practice IV Cr. 1-5.
- ECET 395 - Industrial Practice V Cr. 1-5.
- ECET 403 - Communications II Cr. 4.
- ECET 411 - Microcomputer Interfacing Cr. 4.
- ECET 414 - Wireless Communications Cr. 4.
- ECET 434 - PC Systems II Cr. 4.
- ECET 453 - Topics in Telecommunications Cr. 4.
- ECET 466 - Windows Programming for Industrial Applications Cr. 4.
- ECET 473 - Microwaves Cr. 4.
- ECET 492 - Digital Systems Cr. 4.

Select Either:

- CPET 355 - Data Communications and Networking Cr. 4.
- ECET 355 - Data Communications and Networking Cr. 4.

Select Either:

- CPET 375 - Microprocessor-Based Digital Systems Cr. 3-4.
- ECET 375 - Computer Controlled System Designs Cr. 3-4.

Select Either:

- CPET 435 - Electronic Industrial Controls
- ECET 435 - Electronic Industrial Controls Cr. 3.

Select Either:

- CPET 472 - Automatic Control Systems Cr. 4.
- ECET 472 - Automatic Control Systems Cr. 4.

Select Either:

- CPET 486 - Robotics and Control Electronics with Microcomputers Cr. 4.
- ECET 486 - Robotics and Control Electronics with Microcomputers Cr. 4.

Non-ECET technical elective courses Credits:6

- CS, MET, or IET courses preferred (*3 credits may be from co-op or military service*)

Required math courses Credits: 13

- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
- MA 228 - Calculus for Technology II Cr. 3.
- MA 321 - Applied Differential Equations Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Required English Technical Writing Course

- ENG W234 - Technical Report Writing Cr. 3.

Total Credits: 127-128

Minor in Computer Science (B.S. EET) Credits: 20

(Only computer science courses in which you have earned a grade C or better can be applied to the degree or used to satisfy prerequisites)

- Approved computer science credits at the 200 level or above: 6
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- MA 175 - Introductory Discrete Mathematics Cr. 3.

Minor in Mathematics Credits: 20

- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.

- MA 227 - Calculus for Technology I Cr. 4.
- MA 228 - Calculus for Technology II Cr. 3.

One of the following Credits: 3

- MA 321 - Applied Differential Equations Cr. 3.
- MA 351 - Elementary Linear Algebra Cr. 3.

One of the following Credits: 3

- STAT 301 - Elementary Statistical Methods I Cr. 3.
- STAT 511 - Statistical Methods Cr. 3.

Total Credits: 132

Elementary Education (B.S.Ed.)

Program: B.S.Ed.

Department of Educational Studies

School of Education

Neff Hall 250 ~ 260-481-6441

The B.S.Ed. in elementary education is intended to prepare students for successful careers as teachers of children in preschool, elementary-primary, and elementary-intermediate classroom settings. The elementary education degree is divided into two concentrations: early childhood, for preschool and elementary-primary school settings, and middle childhood, for elementary-intermediate school settings. Preservice teachers must choose one or both concentrations to complete the degree. Upon satisfactory completion of the program, you are eligible to apply for an Indiana teaching license.

To earn the B.S.Ed. in elementary education, you must satisfy the requirements of IPFW (see part 7) and the School of Education.

Early Childhood Concentration

School Settings: Preschool and Elementary-Primary

General Education Credits: 63

School of Education Credits: 52

Elective Credits: 9

Total Credits: 124

IPFW General Education Requirements Credits: 63

Area I—Linguistic and Numerical Foundations Credits: 18

- COM 114 - Fundamentals of Speech Communication Cr. 3.
(a grade of B or better is required)
- ENG W131 - Elementary Composition I Cr. 3.
(a grade of B or better is required)
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 101 - Mathematics for Elementary Teachers I Cr. 3.
- MA 102 - Mathematics for Elementary Teachers II Cr. 3.
- MA 103 - Mathematics for Elementary Teachers III Cr. 3.

Area II—Natural and Physical Sciences Credits: 12

See Part 2 General Education Requirements for approved courses

- Biology Credits: 3
- Chemistry or Physics Credits: 3
- Geology or Astronomy Credits: 3
- EDUC Q200 - Introduction to Scientific Inquiry Cr. 1-3.
Credits: 3

Area III—The Individual, Culture, and Society Credits: 12

See Part 2 General Education Requirements for approved courses

- American History Credits: 3
- Economics or Political Science Credits: 3
- Sociology or Psychology 120 Credits: 3

One of the following Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.

or

- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.
- HIST H232 - The World in the 20th Century Cr. 3.

Area IV—Humanistic Thought Credits: 9

See Part 2 General Education Requirements for approved courses

- Philosophy Credits: 3
- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- or
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.
- ENG L390 - Children's Literature Cr. 3.

Area V—Creative and Artistic Expression Credits: 9

- EDUC M323 - The Teaching of Music in the Elementary Schools Cr. 2.
- EDUC M333 - Art Experiences for the Elementary Teacher Cr. 2.
- FINA T255 - Crafts and Design Cr. 3.
- MUS Z241 - Introduction to Music Fundamentals Cr. 2.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Education Requirements

Initial Requirements:

- PPST (Pre-Professional Skills Test)
- AUS 115 - Introduction to Communicative Disorders Cr. 3.
- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 1/0
- EDUC W200 - Using Computers for Education Cr. 1.
(a grade of B or better is required)

Block 1: Teacher Education

- EDUC H340 - Education and American Culture Cr. 2-3.

Credits: 3

- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P249 - Growth and Development in Early Childhood Cr. 3.

Block 2: Professional Education

- T.E.A.M. I
- EDUC E339 - Methods of Teaching Language Arts Cr. 2-3.
Credits: 3
- EDUC E340 - Methods of Teaching Reading I Cr. 2-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3
- EDUC P251 - Educational Psychology for Elementary Teachers Cr. 1-4.
Credits: 3

Block 3: Professional Education

- EDUC E325 - Social Studies in the Elementary Schools Cr. 3.
- EDUC E333 - Inquiry in Mathematics and Science Cr. 3.
- EDUC E336 - Play as Development Cr. 3.
- EDUC E337 - Classroom Learning Environments Cr. 3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 0

Student Teaching

- EDUC M501 - Portfolio Credits: 0
- EDUC M425 - Student Teaching: Elementary Cr. 1-16.
Credits: 12
- EDUC M470 - Practicum Cr. 3-8.
Credits: 4 (optional)
(for an additional endorsement area)

Electives Credits: 9

Total Credits: 124

Middle Childhood Concentration

School Settings: Elementary-Intermediate

General Education Credits: 63

School of Education Credits: 52

Elective Credits: 9

Total Credits: 124

IPFW General Education Requirements Credits: 63

Area I—Linguistic and Numerical Foundations Credits: 18

- COM 114 - Fundamentals of Speech Communication Cr. 3.
(grade of B or better required)
- ENG W131 - Elementary Composition I Cr. 3.
(grade of B or better required)
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 101 - Mathematics for Elementary Teachers I Cr. 3.
- MA 102 - Mathematics for Elementary Teachers II Cr. 3.
- MA 103 - Mathematics for Elementary Teachers III Cr. 3.

Area II—Natural and Physical Sciences Credits: 12

See Part 2 General Education Requirements for approved courses

- Biology Credits: 3
- Chemistry or Physics Credits: 3
- Geology or Astronomy Credits: 3
- EDUC Q200 - Introduction to Scientific Inquiry Cr. 1-3.

Area III—The Individual, Culture, and Society Credits: 12

See Part 2 General Education Requirements for approved courses

- American History Credits: 3
- Economics or Political Science Credits: 3
- Sociology or Psychology 120 Credits: 3

One of the following: Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.
or
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.
- HIST H232 - The World in the 20th Century Cr. 3.

Area IV—Humanistic Thought Credits: 9

See Part 2 General Education Requirements for approved courses

- Philosophy Credits: 3
- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
or
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.
- ENG L390 - Children's Literature Cr. 3.

Area V—Creative and Artistic Expression Credits: 9

- EDUC M323 - The Teaching of Music in the Elementary Schools Cr. 2.
- EDUC M333 - Art Experiences for the Elementary Teacher Cr. 2.
- FINA T255 - Crafts and Design Cr. 3.
- MUS Z241 - Introduction to Music Fundamentals Cr. 2.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Education Requirements

Initial Requirements:

- PPST (Pre-Professional Skills Test)
- AUS 115 - Introduction to Communicative Disorders Cr. 3.
- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.

Credits: 0

- EDUC W200 - Using Computers for Education Cr. 1.
(a grade of B or better is required)

Block 1: Teacher Education

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P249 - Growth and Development in Early Childhood Cr. 3.

Block 2: Professional Education

- T.E.A.M. I
- EDUC E339 - Methods of Teaching Language Arts Cr. 2-3.
Credits: 3
- EDUC E340 - Methods of Teaching Reading I Cr. 2-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3
- EDUC P251 - Educational Psychology for Elementary Teachers Cr. 1-4.
Credits: 3

Block 3: Professional Education

- T.E.A.M. II
- EDUC E325 - Social Studies in the Elementary Schools Cr. 3.
Credits: 3
- EDUC E328 - Science in the Elementary Schools Cr. 3.
Credits: 3
- EDUC E341 - Methods of Teaching Reading II Cr. 2-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC N343 - Mathematics in the Elementary School Cr. 3.
Credits: 3

Student Teaching

- EDUC M501 - Portfolio Credits: 0

- EDUC M425 - Student Teaching: Elementary Cr. 1-16.
Credits: 12
- EDUC M470 - Practicum Cr. 3-8.
Credits: 4 (optional)
(for an additional endorsement area)

Electives Credits: 9

Total Credits: 124

English (B.A.)

Program: B.A.

Department of English and Linguistics

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

To earn the B.A. with a major in English, you must fulfill the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and those listed below.

As you complete your degree, you will be required to submit clean copies of two papers to the department. The first paper must be from a course taken during the first 15 credits you count toward the major, and the second from a course taken thereafter and counted toward the major. Both papers should be from courses taught in the department, be appropriate to your concentration, and represent your best work. At least one should be based on research and include documentation. Please turn the paper in before the end of the appropriate semester and include a copy of the assignment, if it is available.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression

See Part 2 General Education Requirements for approved courses

- Credits not in your major discipline: 3

Area VI—Inquiry and Analysis

See Part 2 General Education Requirements for approved courses

- Credits not in your major discipline: 3

School of Arts and Sciences Requirements

English Writing

- ENG L202 - Literary Interpretation Cr. 3.

Foreign Language credits: 14

- Requirements in Arts and Sciences Part B

Distribution (not in major discipline) Credits: 9

- Requirements in Arts and Sciences Part C

Cultural Studies Credits: 6

- Requirements in Arts and Sciences Part D

Core and Concentration (Major) Courses

- Credits in Writing (ENG W203 or a W-prefixed course above the 200-level): 3
- Credits in American literature: 3
- Credits in British literature before 1700: 3
- Credits in British literature after 1700: 3
- Credits in language study (linguistics, history of the English language, or Old or Middle English literature): 3
- Credits in one of the concentrations as listed: 15–53
- ENG L202 - Literary Interpretation Cr. 3.

General Elective Courses Credits: 0–32

- Sufficient elective credits, selected in consultation with your advisor

Total Credits: 124

Fine Arts (B.A.)

Program: B.A.

Department of Visual Arts/Fine Arts Program

School of Visual and Performing Arts

Visual Arts Building 117 ~ 260-481-6705 ~ www.ipfw.edu/vpa/

This program is based on the humanist tradition of developing an artistic awareness through visual expression. It is designed to enable students to see, formulate, and articulate concepts through the manipulation of form and materials. This art-making practice is through several studio art disciplines offered at IPFW. They are ceramics, metals, drawing, painting, printmaking, or sculpture. The IPFW B.A. program is a broad-based liberal arts degree with wideranging interest in and outside of the fine arts. Students can choose to concentrate in a specific art discipline, or may explore a wide range of artistic disciplines.

Components	Credits
I. General Education	33
II. Content Field	57-69

Admission to B.A. Program with a Major in Fine Arts

To earn the B.A., you must fulfill the requirements of IPFW (see Part 7) and the School of Visual and Performing Arts (see Part 3). Students within the fine arts B.A. must maintain a minimum 2.0 GPA within the Content Field (see below).

IPFW General Education Requirements Credits: 33

Area I Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

- Quantitative Reasoning Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

- (Fine arts majors may not use any FINA-prefixed courses to fulfill this requirement)

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

- (Fine arts majors may not use any FINA-prefixed courses to fulfill this requirement)

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Visual and Performing Arts Requirements

II. Content Field:

Students must complete a minimum of 48 credit hours in studio art and at least 9 credit hours in FINA art history classes including the following:

- 200/300/400 Studio Electives Credits: 24–36
- VCD P273 - Computer Art and Design I Cr. 3.

Credits in FINA studio courses: 12

- FINA P121 - Drawing Fundamentals I-II Cr. 3.
- FINA P122 - Drawing Fundamentals I-II Cr. 3.
- FINA P151 - Design Fundamentals I-II Cr. 3.
- FINA P152 - Design Fundamentals I-II Cr. 3.

Choose three classes from the following: 9

At least one course from either 2D and 3D disciplines must be taken.

- FINA P223 - Figure Drawing I Cr. 3.
- FINA P225 - Painting Fundamentals I Cr. 3.
- FINA P231 - Sculpture Fundamentals Cr. 3.
- FINA P233 - Metalsmithing Fundamentals Cr. 3.
- FINA P235 - Ceramics Fundamentals Cr. 3.
- FINA P241 - Printmaking Fundamentals Cr. 3.

Note

Select at least eight additional, but no more than twelve, studio art classes (24–36 credits) at the 200/300/400 level. At least three classes (15 credits) in studio courses must be at the 300 level or above. Of these, up to four classes can be in VCD unless permission from your advisor is given to include more. All classes should be selected in consultation with your advisor and approved by the chair of fine arts.

Art History Credits: 9

- Art History Elective, 300 or 400 Level (FINA classes)

The following classes must be taken within the first four semesters of the B.A. program

- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.

Additional Courses Credits: 21-33

III. General Liberal Arts

A minimum of seven additional, but no more than eleven, liberal arts courses (21–33 credits) are needed to fulfill the B.A. requirements. An option of pursuing a minor in an outside field is encouraged within these credits.

Residence Requirements: For a bachelor's degree, registration in and completion of at least 32 credits of resident course credit at the 200 level or above, including at least 15 credits at the 300 level or above, in courses applicable to the major

Transferred Credit: All studio art and art history courses transferred from another institution or campus must be evaluated by an appropriate faculty member in the Fine Arts Program before they may be applied to a major in fine arts. See Transfer Credit.

Limit on Fine Arts Credit Hours: A maximum of 60 credit hours of studio art fine art courses and a minimum of 48 credit hours of studio art fine art courses will count toward the 123 required for the B.A.

Total Credits: 123

Fine Arts (B.F.A.)

Program: B.F.A.

Department of Visual Arts/Fine Arts Program

School of Visual and Performing Arts

Visual Arts Building 117 ~ 260-481-6705 ~ www.ipfw.edu/vpa/

The Bachelor of Fine Arts program is designed for exceptional students who are interested in pursuing a professional career in the field of fine arts. They must have demonstrated superior ability and motivation in a particular studio art discipline. Students within the B.F.A. program can concentrate in ceramics, metals, drawing, painting, printmaking, or sculpture. This intensive studio experience will amount to an extra year beyond the B.A. program for most B.F.A. majors. All students in the fine arts program start as B.F.A. candidates and then petition for formal entrance into the B.F.A. program after the completion of 200-level requirements. Each student is subject to a portfolio review, judgment of grades, and a personal interview with faculty for admission into the B.F.A. program. Students may not enroll in any FINE courses 300 or higher unless above requirements are met. All B.F.A. students must maintain a 3.0 GPA within the content field (see below)

Admission

Students must meet the requirements of IPFW (see Part 7)

Components:

Credits

I. General Education

33

IPFW General Education Requirements Credits: 33

Area I—Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

- Quantitative Reasoning Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

- (Fine arts majors may not use any FINA-prefixed courses to fulfill this requirement.)

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

- (Fine arts majors may not use any FINA-prefixed courses to fulfill this requirement).

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Visual and Performing Arts Requirements

II. Content Field Credits: 90

Students must complete a minimum of 75 credit hours in studio and 15 credit hours in FINA art history classes for the B.F.A.

100 Level Foundation Courses Credits: 12

- FINA P121 - Drawing Fundamentals I-II Cr. 3.
- FINA P122 - Drawing Fundamentals I-II Cr. 3.
- FINA P151 - Design Fundamentals I-II Cr. 3.
- FINA P152 - Design Fundamentals I-II Cr. 3.

Art History Credits: 15

- Three additional FINA 300 level or above art history classes Credits: 9

The following courses must be taken within the first four semesters of the program

- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.

200-level classes Credits: 21

- FINA P223 - Figure Drawing I Cr. 3.
- FINA P225 - Painting Fundamentals I Cr. 3.
- FINA P231 - Sculpture Fundamentals Cr. 3.
- FINA P233 - Metalsmithing Fundamentals Cr. 3.
- FINA P235 - Ceramics Fundamentals Cr. 3.
- FINA P241 - Printmaking Fundamentals Cr. 3.
- VCD P273 - Computer Art and Design I Cr. 3.

300/400-level studio concentration Credits: 21

- 400-level classes can be repeated to fulfill requirement

200/300/400 Electives Credits: 15

- Classes can be in either FINA or VCD

Senior Project Credits: 6

Total Credits: 123

French (B.A.)

Program: B.A.

Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs

French is the language of many fascinating countries and cultures in Africa, parts of Asia, Europe, and North America. French-speaking countries influence many fields of study, such as the arts, philosophy, politics and world economy, science, and technology. With a major in French and a degree, in particular a B.A., you may continue your education in languages or expand into other fields at a graduate school, or you may pursue a career in business or teaching.

To earn the B.A. with a major in French, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and satisfactorily complete the requirements of the major, given below.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of following Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- LING L103 - Introduction to the Study of Language Cr. 3.

One of following Credits: 3

- HIST H232 - The World in the 20th Century Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Area IV—Humanistic Thought

- Additional credits in Area IV: 3

One of following Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in FREN) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing Credits: 0

- FREN W300 - Methods of Research and Criticism Cr. 3.

Foreign Language

One of following Credits: 4-8

- FREN F111 - Elementary French I Cr. 4.
- FREN F112 - Elementary French II Cr. 4.
- FREN F113 - First-Year French in One Semester Cr. 4.
- FREN F203 - Second-Year French I Cr. 3.
- FREN F204 - Second-Year French II Cr. 3.

Distribution (not in FREN)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- Credits in 300-level French literature courses Credits: 6
- Credits in 300-level French language courses, excluding F325 Oral French for Teachers Credits: *6–9
- Credits in 400-level French and francophone civilization courses (F463 or F464) Credits: 3
- Additional credits in 400-level French courses Credits: *9–12

**The combined total of 300-level French language courses and 400-level French courses must be at least 18 credits.*

- FREN F213 - Second-Year French Composition Cr. 2.
(normally taken concurrently with F203–F204)
- FREN W300 - Methods of Research and Criticism Cr. 3.
(taught in fall semester; should be taken concurrently with the first 300-level French or Francophone literature course)

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

French with Teacher Certification (B.A.)

Program: B.A. with Teacher Certification

Department of International Language and Culture Studies

School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs

Students pursuing a French major for the B.A. with teacher certification must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) and satisfactorily complete the requirements of the major, given below.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUC K201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of following Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- LING L103 - Introduction to the Study of Language Cr. 3.

One of following Credits: 3

- HIST H232 - The World in the 20th Century Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Area IV—Humanistic Thought

- Additional credits in Area IV: 3

One of following Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in FREN) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements (25–29 credits)

English Writing Credits: 0

- FREN W300 - Methods of Research and Criticism Cr. 3.

Foreign Language (10–14 credits)

- FREN F203 - Second-Year French I Cr. 3.
- FREN F204 - Second-Year French II Cr. 3.

One of the following: Credits: 4-8

- FREN F111 - Elementary French I Cr. 4.
- FREN F112 - Elementary French II Cr. 4.
- FREN F113 - First-Year French in One Semester Cr. 4.

Distribution (not in FREN)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- Credits in 300-level French language courses Credits: 6
- Credits in 300-level French literature courses Credits: 6
- Credits in 400-level French and francophone civilization courses (F463 or F464) Credits: 3
- Additional credits in 400-level French courses Credits: 9
- FREN F213 - Second-Year French Composition Cr. 2.
(normally taken concurrently with F203–F204)
- FREN F325 - Oral French for Teachers Cr. 3-8.
- FREN W300 - Methods of Research and Criticism Cr. 3.
(taught in fall semester; should be taken concurrently with the first 300-level French or francophone literature course)

Professional Education

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC M445 - Methods of Teaching Foreign Languages Cr. 3.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.

And Select:

Credits: 3

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC P250 - General Educational Psychology Cr. 1-4.

And Select:

Credits: 3

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

Middle School Certification (Recommended)

- EDUC M470 - Practicum Cr. 3-8.

General Elective Courses

- Sufficient additional credits, if necessary, to bring the total to 124.

Total Credits: 124-130

General Studies (B.G.S.)

Program: B.G.S.

Division of Continuing Studies

Kettler Hall 145 ~ 260-481-6828 ~ www.edu/dcs/gsdg/

General Studies offers a wide variety of personalized degree options to the traditional and nontraditional student. Students may individually tailor their program to combine a substantial core of courses basic to a traditional university education and study in career-related areas. Within the flexible framework of degree requirements, students may design an undergraduate program that can more readily meet their career and personal-development goals than can a traditional major. Students will be encouraged and assisted in developing a unique academic program complementing their individual interests, abilities, and intellectual and practical concerns.

In addition to taking advantage of the wide variety of daytime, evening, and weekend classes at IPFW, students may choose to earn credit toward their degree through correspondence study. Students may also earn credit by examination, and in some cases earn credit for significant, documentable self-acquired competencies when the learning outcomes have been comparable to those of university-level work. Consideration is given to all previously earned college credit from other accredited institutions. The Associate of Arts in General Studies and Bachelor of General Studies programs may also be tailored to the needs of those unable to study on campus during regularly scheduled periods. Both degrees may be completed online.

Both programs include courses in broad categories called required areas of learning (listed below) and elective credit that students may earn in any IPFW program. The required areas of learning provide broad exposure to the humanities, social sciences, and sciences, while the electives permit students to explore areas of interest, receive credit for prior university-level experiential learning, and tailor the degree to their individual needs. In each plan of study, students must demonstrate competency in each of the following areas: written communication (two courses), oral communication, mathematics, computer literacy, a diversity course, and a capstone course.

After students are admitted to a general studies degree program, students will develop a plan of study to meet their objectives. An advisor will provide assistance in this effort. For further information, refer to the current Indiana University School of Continuing Studies *General Studies Degree Bulletin*.

To earn a B.G.S., students must complete the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Required Areas of Learning

General studies is a university-wide degree program, certified through Indiana University's School of Continuing Studies. The program follows the same curriculum requirements throughout Indiana University.

Arts and Humanities Credits: 0-6

(depending upon course selection for general education)

Afro-American Studies	Foreign Language
Classical Studies	History
Communication	Journalism
Comparative Literature	Music
English (except R150 and W130)	Philosophy
Film	Religion
Fine Arts	Theatre
Folklore	Visual Communication and Design

Science and Mathematics Credits: 3-9

(depending upon course selection for general education)

- ANTH B200 and E445 (only)
- Astronomy
- Biology
- Chemistry
- *Computer Science (includes BUS K211, K212, K213, K214, K215, and K216)
- ECON E270 (only)
- Entomology
- Forestry and Natural Resources
- GEOG G107, G109, G315 (only)
- Geology
- Horticulture
- Mathematics (except 109, 111, and 113)
- Physics
- PSY 120, 201, 310, 314, 329, and 416 (only)
- SOC S351 (only)
- SPEA K300 (only)
- Statistics

*required course

Social and Behavior Sciences Credits: 6-12

(depending upon course selection for general education)

- Anthropology
- Psychology
- Economics
- Sociology
- Geography
- SPEA J101 (only)
- Linguistics
- WOST W210 (only)
- Political Science

Required Core and Concentration (Major) Credits: 54

- 12 credits in each required area of learning, including courses from at least two departments in each area Credits: 36
- 18 credits in one of the three required areas of learning Credits: 18

General Elective Courses Credits: 66

In consultation with an advisor, you are urged to concentrate electives in related departments (15 credits in arts and sciences are required).

Note

Students must complete at least 20 of these credits after admission to the program. No more than 21 credits in a single arts and sciences department/subject area or 30 credits in a single professional school area may be counted. Courses in which a grade of D is earned will count only as electives. A minimum of 30 credits must be taken at the 300–400 level. At least 30 credits must be taken within the IU system or as a Purdue student at IPFW.

Total Credits: 120

Geology (B.A.)

Program: B.A.

Department of Geosciences

School of Arts and Sciences

Science Building 230 ~ 260-481-6249 ~ www.geosci.ipfw.edu

To earn the B.A. with a major in geology, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and complete required geoscience courses with grades of C or better.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.

One of following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- CHM 115 - General Chemistry Cr. 4.

One of the following: Credits: 0

(credits included in Major Courses, below)

- GEOL G100 - General Geology Cr. 3-5.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL L100 - General Geology Laboratory Cr. 1-2.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in GEOL) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Requirements in Arts and Science Part B Credits: 14

Distribution

One of following Credits: 4-6

- Credits in social and behavioral sciences Credits: 3
- Credits in humanities Credits: 3
- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- PHYS 131 - Concepts in Physics I Cr. 3.
- PHYS 132 - Concepts in Physics II Cr. 3.

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- GEOG G237 - Cartography and Geographic Information Credits: 3
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G211 - Introduction to Paleobiology Cr. 3.
- GEOL G221 - Introductory Mineralogy Cr. 3-4.
Credits: 3
- GEOL G222 - Introduction to Petrology Cr. 3.
- GEOL G323 - Structural Geology Cr. 3.
- GEOL G334 - Principles of Sedimentology and Stratigraphy Cr. 3.

One of following Credits: 3-4

- GEOL G100 - General Geology Cr. 3-5.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL L100 - General Geology Laboratory Cr. 1-2.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Geology (B.S.G.)

Program: B.S.G.

Department of Geosciences

School of Arts and Sciences

Science Building 230 ~ 260-481-6249 ~ www.geosci.ipfw.edu

To earn the B.S.G., you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) and complete required courses in geoscience and ancillary subject areas with grades of C or better.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
- MA 228 - Calculus for Technology II Cr. 3.

One of following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

Credits included in Core Courses, below

- CHM 115 - General Chemistry Cr. 4.

One of following Credits: 0

- AST A100 - The Solar System Cr. 3.
- GEOG G107 - Physical Systems of the Environment Cr. 3.
- GEOL G100 - General Geology Cr. 3-5.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL G210 - Oceanography Cr. 3.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in GEOL) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Credits in the first year of a modern foreign language Credits: 8

Core and Concentration (Major) Courses

- Credits in a STAT or CS course approved by your advisor Credits: 3
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G211 - Introduction to Paleobiology Cr. 3.
- GEOL G221 - Introductory Mineralogy Cr. 3-4.
Credits: 3
- GEOL G222 - Introduction to Petrology Cr. 3.
- GEOL G319 - Elementary Field Geology Cr. 2.
- GEOL G323 - Structural Geology Cr. 3.
- GEOL G334 - Principles of Sedimentology and Stratigraphy Cr. 3.
- PHYS 218 - General Physics Cr. 4.
and
- PHYS 219 - General Physics II Cr. 4.
or
- PHYS 220 - General Physics Cr. 4.
and
- PHYS 221 - General Physics Cr. 4.

One of following Credits: 3-4

- AST A100 - The Solar System Cr. 3.
with GEOL L100 (4 credits)
- GEOG G107 - Physical Systems of the Environment Cr. 3.
with GEOL L100 (4 credits)
- GEOL G100 - General Geology Cr. 3-5.
with L100 (4 credits)
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL G210 - Oceanography Cr. 3.
with L100 (4 credits)

Option Requirements

- Credits in the Environmental Geology Option or Geology Option Credits: 15–18 (see below)

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Environmental Geology Option

This option will help you prepare for advanced study in environmental geology or for work as a professional geologist in the areas of water supply, waste management, geological hazards, and engineering geology.

12 credits from the following:

- Additional credits in 300- or 400-level geology courses Credits: 3
- GEOG G315 - Environmental Conservation Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.
- GEOL G406 - Introduction to Geochemistry Cr. 3.
- GEOL G415 - Geomorphology Cr. 3-4.
- GEOL G451 - Principles of Hydrogeology Cr. 3.

Total Credits: 15

Geology Option

This is the traditional option in geology. It will help you prepare for advanced study in geology or work as a professional geologist.

Option Requirements

- Field camp experience (e.g., GEOL G429) Credits: 6–7
- Credits in 400-level geology courses Credits: 8
- Additional credits in 300- or 400-level geology courses Credits: 3

Total Credits: 17-18

German (B.A.)

Program: B.A.

Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

To earn the B.A. with a major in German, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and satisfactorily complete the requirements of the major, given below:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- LING L103 - Introduction to the Study of Language Cr. 3.

One of following Credits: 3

- HIST H232 - The World in the 20th Century Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Area IV—Humanistic Thought

- Additional credits in Area IV Credits: 3

One of the following Credits: 3

- FWAS 201 - Humanities I: The Ancient World Cr. 3.
- FWAS 202 - Humanities II: Foundations of the Modern Western World Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in GER) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- GER W300 - Methods of Research and Criticism Cr. 3.

Foreign Language

- GER G203 - Second-Year German I Cr. 3.
- GER G204 - Second-Year German II Cr. 3.

One of following Credits: 4-8

- GER G111 - Elementary German I Cr. 4.
- GER G112 - Elementary German II Cr. 4.
- GER G113 - First-Year German in One Semester Cr. 4.

Distribution (not in GER)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- Credits in German culture, normally G362, G363, G463, or G464 Credits: 3
- Credits in 300-level German literature courses Credits: 3
- Additional credits in German at the 300 level Credits: 3
- Credits in 400-level German courses (language, literature, and/or culture) Credits: 9
- GER G318 - German Language Skills I Cr. 3-5.
Credits: 3
- GER W300 - Methods of Research and Criticism Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

German with Teacher Certification (B.A.)

Program: B.A. with Teacher Certification **Department of International Language and Culture Studies** **School of Arts and Sciences**

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

Students pursuing a B.A. in German with teacher certification must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) and satisfactorily complete the following requirements.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUC K201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student teaching semester, normally in your senior year.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundation

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of following Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- LING L103 - Introduction to the Study of Language Cr. 3.

One of following Credits: 3

- HIST H232 - The World in the 20th Century Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Area IV—Humanistic Thought

- Additional credits in Area IV Credits: 3

One of following Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in GER) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- GER W300 - Methods of Research and Criticism Cr. 3.
(credits included in Major Courses, below)

Foreign Language

- GER G203 - Second-Year German I Cr. 3.
- GER G204 - Second-Year German II Cr. 3.

One of following Credits: 4-8

- GER G111 - Elementary German I Cr. 4.
- GER G112 - Elementary German II Cr. 4.
- GER G113 - First-Year German in One Semester Cr. 4.

Distribution (not in GER)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- Credits in German culture, normally G362, G363, G463, or G464 Credits: 3
- Credits in 300-level German literature courses Credits: 3
- Additional German credits at the 300 level Credits: 3
- Credits in 400-level German courses (language, literature, and/or culture) Credits: 12
- GER G318 - German Language Skills I Cr. 3-5.
- GER G325 - German for Teachers Cr. 3.
- GER W300 - Methods of Research and Criticism Cr. 3.
(taught in fall semester; should be taken concurrently with the first 300-level German literature course)

Professional Education

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M445 - Methods of Teaching Foreign Languages Cr. 3.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
Credits: 10
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

And Select:

Credits: 3

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC P250 - General Educational Psychology Cr. 1-4.

And Select:

Credits: 3

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

Middle School Certification (Recommended)

- EDUC M470 - Practicum Cr. 3-8.

General Elective Courses

- Sufficient additional credits, if necessary, to bring the total to 124.

Total Credits: 124

History (B.A.)

Program: B.A.

Department of History

School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/hist

To earn the B.A. with a major in history, you must fulfill the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and those listed below.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- Additional credits in Area III Credits: 3
- HIST H105 - American History I Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in HIST) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

(if you have satisfied the second writing course requirement with another approved course prior to becoming a history major, you should consult the department chair to discuss the possible need to take HIST H217)

- HIST H217 - The Nature of History Cr. 3.

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in HIST)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Credits in non-Western culture: 3
- HIST H113 - History of Western Civilization I Cr. 3.

Core and Concentration (Major) Courses

- Credits in upper-level American history Credits: 6
- Credits in upper-level Western European history* Credits: 6
- Credits in upper-level Other World history* Credits: 6
- Additional credits in history (H217 excluded) Credits: 3

**HIST H232 may not be used to fulfill the Western European or Other World requirements, but may be used for additional credit toward the major or minor.*

- HIST H105 - American History I Cr. 3.
- HIST H106 - American History II Cr. 3.
- HIST H113 - History of Western Civilization I Cr. 3.
- HIST H114 - History of Western Civilization II Cr. 3.
- HIST J495 - Proseminar for History Majors Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

History Honors Degree (B.A.)

Program: B.A. Honors

Department of History

School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/hist

As an entering student, you become eligible for this honors program by scoring above 600 on the SAT I verbal test or the CEEB history achievement test; thereafter, you must have a GPA of 3.25 or higher or be recommended by a member of the department for admission. Admission to the degree program requires that you submit a written petition to the department no later than the end of your junior year.

Completion of the program requires, in addition to fulfillment of the B.A. requirements, (1) a GPA of 3.30 or higher in history and a cumulative GPA of 3.25 or higher; (2) 9 credits of honors courses, including 6 in history; (3) satisfactory completion in HIST K499 of an honors thesis; and (4) satisfactory defense of the honors thesis.

Hospitality Management (B.S.)

Program: B.S.

Department of Consumer and Family Sciences

School of Health Sciences

Neff Hall 330 ~ 260-481-6562

Men and women with leadership ability are in great demand for managerial and administrative positions in the rapidly expanding hospitality industry. The number of available management positions in the industry continues to exceed the number of hospitality

graduates each year. Students from this program assume responsibilities for managerial proficiency at various levels and for providing services in the multitude of situations where people eat or live away from home.

To earn the B.S., you must satisfy the requirements of IPFW (see Part 7), earn a grade of C or better in each required ENG and HTM course, and complete the following requirements:

IPFW General Education Requirements Credits: 30

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

CFS General Distribution Requirements Credits: 9

- ENG W232 - Introduction to Business Writing Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.

Business Core Credits: 9

- BUS A201 - Principles of Financial Accounting Cr. 3.
- CS 106 - Introduction to Computers Cr. 3.
- ECON E200 - Fundamentals of Economics Cr. 3.

Organizational Leadership and Supervision Core Credits: 9

- OLS 376 - Human Resources Issues Cr. 3.
- OLS 454 - Gender and Diversity in Management Cr. 3.
- OLS 476 - Compensation Planning and Management Cr. 3.

Hospitality Management Core Credits: 47

- FNN 303 - Essentials of Nutrition Credits: 3
- FNN 203 - Foods Selection and Preparation Cr. 3.
- HTM 100 - Introduction to the Hospitality and Tourism Industry Cr. 1-3.
- HTM 181 - Lodging Management Cr. 3.
- HTM 191 - Sanitation and Health in Foodservice, Lodging, and Tourism Cr. 3.
- HTM 212 - Organization and Management in the Hospitality and Tourism Industry Cr. 3.
- HTM 231 - Hospitality and Tourism Marketing Cr. 3.
- HTM 251 - Computers in the Hospitality Industry Cr. 3.
- HTM 291 - Quantity Food Production and Service Cr. 2-3.
- HTM 291L - Quantity Food Production and Service Labs Cr. 2.
- HTM 301 - Hospitality and Tourism Industry Practicum Cr. 1.
- HTM 302 - Hospitality and Tourism Industry Internship Cr. 1-4.
- HTM 312 - Human Resources Management for the Service Industries Cr. 3.
- HTM 371 - Introduction to Tourism Cr. 3.
- HTM 411 - Hospitality and Tourism Law Cr. 3.
- HTM 491 - Beverage Management Cr. 2.
- HTM 492 - Advanced Foodservice Management Cr. 4.

Hospitality Electives Credits: 21

- COM 303 - Intercultural Communication Cr. 3.
- HPER R160 - Man, His Leisure, and Recreation Cr. 3.
- HPER R180 - Recreation Leadership Cr. 2.
- HTM 311 - Procurement Management for Foodservice Cr. 3.
- HTM 314 - Franchising Cr. 3.
- HTM 315 - Club Management and Operations Cr. 3.
- HTM 316 - Casino Management Cr. 3.
- HTM 321 - Equipment for Restaurants, Hotels, and Institutions Cr. 3.
- HTM 322 - Hospitality Facilities Management Cr. 3.
- HTM 323 - Foodservice Layout and Design Cr. 3.
- HTM 341 - Cost Controls in Foodservice and Lodging Cr. 3.
- HTM 383 - Resort, Cruise, and Entertainment Operations Cr. 3.
- HTM 391 - Specialty Foodservice and Catering Cr. 3.
- OLS 378 - Labor Relations Cr. 3.

Total Credits: 125

Human Services Completion Degree (B.S.)

Program: B.S. completion degree

Department of Human Services

School of Health Sciences

Neff Hall 120 ~ 260-481-6424

The Bachelor of Science in Human Services is a completion degree that requires a total of 125 semester credit hours with a minimum of 60 semester credits earned during the B.S. completion program, and an additional 65 credits transferred in from an A.S. program in human services. The program is designed to prepare students to become human service professionals who can meet the needs of clients and communities within a diverse society. Examples of job roles that graduates of the degree would be qualified to fill include group home supervisor, substance abuse prevention educator, case manager, social service agency staff/manager, and psychiatric rehabilitation worker/supervisor, among others.

Students are admitted to this degree-completion program as follows:

1. Students new to IPFW must complete an application for undergraduate admission and meet the criteria for admission to the university. Students who have previously taken courses at IPFW should apply for re-entry to the university if they have not been actively enrolled at IPFW for one year or greater.
2. Students who have completed the requirements for the Associate of Science in human services at IPFW, Ivy Tech Community College, or another human services program from another accredited institution and have a GPA of at least 2.0, will enroll in the program with junior status.
3. Students who have not completed the requirements for the Associate of Science in human services will complete those at Ivy Tech Community College but may be admitted to IPFW as a pre-human services student. Pre-human services students may combine studies at IPFW and Ivy Tech to complete the requirements of the Fort Wayne Ivy Tech Community College A.S. in human services and may also work on B.S. completion courses. After meeting the criteria for the A.S., students can be fully admitted to the human services B.S. program. All 300- and 400- level courses must be completed at IPFW. For further information regarding the Fort Wayne Ivy Tech Community College human services A.S. program, please call Jan Vick, 260-480-4113
4. All students will be required to meet the regular IPFW and Purdue University admission standards, as presented in the IPFW Bulletin. Pre-human services students will also be required to meet the regular Ivy Tech admission standards.
5. Students will be required to complete a program admissions application.
6. Students must comply with internship agency requirements for internship placements. These will include a separate interview and may include proof of certain immunizations and/or certification in CPR. Many clinical agencies now require that students provide them with a criminal history check with the Indiana State Police prior to acceptance as clinical students and have varying policies regarding what constitutes an acceptable history for placement with their client population. Anyone with a record of a sex crime against a child may not be placed into an internship in which there is an actual or potential possibility that they will come into contact with children (IC 5-2-12-12). Students who cannot be placed in internships with reasonable effort as a result of their criminal histories and subsequently cannot complete the program requirements will be unable to graduate from the program.

To earn the B.S., you must complete the following requirements:

Credits from an A.S. program in human services Credits: 65

IPFW General Education Requirements Credits: 21

Area I—Linguistic and Numerical Foundations Credits: 3

Choose one:

- SPEA K300 - Statistical Techniques Cr. 3.
(recommended)
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 3

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

- Elective Credits: 3
- PHIL 110 - Introduction to Philosophy Cr. 3.
- PHIL 111 - Ethics Cr. 3.
- PHIL 112 - Religion and Culture Cr. 3.
- PHIL 120 - Critical Thinking Cr. 3.
- PHIL 150 - Principles of Logic Cr. 3.
- PHIL 312 - Medical Ethics Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 6

- Sociology or psychology elective Credits: 3
- Elective Credits: 3

Human Services Core Credits: 15

- COM 303 - Intercultural Communication Cr. 3.
- HSRV 315 - Introduction to Theories and Therapies Cr. 3.
- HSRV 320 - Case Methods Cr. 3.
- HSRV 330 - Psychopharmacology for Human Services Cr. 1.
- HSRV 400 - Internship I Cr. 1-4.
- HSRV 401 - Internship Seminar I Cr. 1.

- HSRV 450 - Internship II Cr. 2-4.
- HSRV 451 - Internship Seminar II Cr. 1.
- NUR 309 - Transcultural Healthcare Cr. 3.

Human Service Concentration Credits: 12

Student works with advisor to identify a group of courses from human services and related disciplines that support a concentration in such areas as addictions, psychiatric rehabilitation, gerontology, child/adolescent services, activity/recreational therapies, and developmental disabilities. These courses prepare students to graduate with knowledge and skills directly applicable to their chosen area of interest within the human services profession.

Required supporting courses Credits: 12

- ENG W233 - Intermediate Expository Writing Cr. 3.
- PSY 329 - Psychobiology II: Principles of Psychobiological Psychology Cr. 3.
or department course
- PSY 350 - Abnormal Psychology Cr. 3.
(or substitution if Ivy Tech PSY 205 completed)

Choose one of the following Credits: 3

- NUR 339 - Research in Healthcare Cr. 3.
- PSY 203 - Introduction to Research Methods in Psychology Cr. 3.
- SOC S352 - Methods of Social Research Cr. 3.

Industrial Engineering Technology (B.S.)

Program: B.S.

Department of Mechanical and Industrial Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 205 ~ 260-481-6385 ~ www.mft.ipfw.edu

This program prepares graduates with knowledge, technical, analytical, and managerial skills necessary to develop, implement, and improve integrated systems in manufacturing and service industries that include people, materials, equipment, information, and energy. Graduates will be prepared for careers in higher levels of system design, integration, and management. To earn the B.S. with a major in industrial engineering technology, you must fulfill the requirements of IPFW (see Part 7), the College of Engineering, Technology, and Computer Science (see Part 3), and of the A.S., and complete the following credits, earning a grade of C or better in those courses that serve as prerequisites:

IPFW General Education Requirements

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis

- ENG W421 - Technical Writing Projects Cr. 1-3.

Required Core and Concentration (Major) Courses

- IET 304 - Advanced Metrology Cr. 3.
- IET 350 - Engineering Economy Cr. 3.
- IET 362 - Technological Optimization Cr. 3.
- IET 369 - Manufacturing Simulation Cr. 3.
- IET 401 - Manufacturing Process Planning Cr. 3.
Grade of C or better required
- IET 454 - Statistical Process Control Cr. 3.
- IET 480 - Cost Estimating and Design Cr. 3.
- MET 201 - Statics, Stress, and Strain Cr. 3.
- MET 300 - Applied Thermodynamics Cr. 3.
- MET 347 - Programming of Automation Systems Cr. 3.

Additional Required Technical Courses

- CHM 111 - General Chemistry Cr. 3.
- ECET 211 - Electrical Machines and Controls Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.

Additional Required Support Courses

- BUS A201 - Principles of Financial Accounting Cr. 3.
- COM 323 - Business and Professional Speaking Cr. 3.

Additional Core and Concentration (Major) Electives

- Any two courses from IET or MET or a course approved by an IET advisor Credits: 6

Total including 64 from A.S. Credits: 128

Information Systems (B.S.)

Program: B.S.

Department of Computer Science

College of Engineering, Technology, and Computer Science

Kettler Hall 252 ~ 260-481-6803 ~ www.cs.ipfw.edu/

The Bachelor of Science program helps you prepare for a career as a computer professional as well as for possible graduate study.

In addition to satisfying the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3), you must complete the courses required for the A.S. with a major in information systems (see above) and the following additional courses. Only computer science courses in which you have earned a grade of C or better can be applied to the degree or used to satisfy prerequisites. A maximum of 10 credits of D grades (including any from the A.S. program) will be accepted in other courses.

- Credits in approved second course in business or economics Credits: 3
- Credits in approved advanced communication course Credits: 3
- Additional credits in approved electives Credits: 10

IPFW General Education Requirements Credits: 12

Area II—Natural and Physical Sciences Credits: 3

*See Part 2 General Education Requirements for approved courses
(may be fulfilled by courses satisfying other requirements)*

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Core and Concentration (Major) Courses Credits: 27

- Credits in approved advanced electives in CS, BUS, ECON, or MA Credit: 9
- CS 364 - Introduction to Database Systems Cr. 3.
- CS 365 - Advanced Database Systems Cr. 3.
- CS 366 - Structured Analysis Techniques Cr. 3.
- CS 367 - Structured Design Techniques Cr. 3.
- CS 466 - Strategic Issues for Information Systems Cr. 3.
- CS 467 - Project Management Cr. 3.

Supporting Courses Credits: 21

- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

One of the following Credits: 3

- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.
- MA 314 - Introduction to Mathematical Modeling Cr. 3.

One of the following Credits: 3

- STAT 301 - Elementary Statistical Methods I Cr. 3.
- STAT 511 - Statistical Methods Cr. 3.

Total Including 64 from A.S. Credits: 124

Interior Design (B.S.)

Program: B.S.

Department of Civil and Architectural Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 229 ~ 260-481-6797 ~ www.caet.ipfw.edu

This program prepares graduates to work as interior design professionals providing creative and project management services for a variety of clients including homeowners, business owners, institutions, manufacturers, and those planning special events. This program will be open to those who have completed an associate degree in interior design. Program elective courses allow students to develop a specialty area in theatre design or commercial equipment and kitchen design. Through the three-course senior design

requirement, students will graduate with a specialty in one of the following areas: residential design, special populations - aging, healthcare design, education design, hotel design, restaurant design, or corrections design.

To earn the B.S. with a major in interior design, you must satisfy the requirements of IPFW (see Part 7), the College of Engineering, Technology, and Computer Science (see Part 3), and the A.S. degree program. You must earn a grade of C or better in each required INTR course, and complete the requirements listed below:

IPFW General Education Requirements

Area II—Natural and Physical Sciences Credits: 3

Area III—The Individual, Culture, and Society Credits: 3

- SOC S161 - Principles of Sociology Cr. 3.

Area IV—Humanistic Thought Credits: 3

Area V—Artistic Expression Credits: 3

Area VI—Inquiry and Analysis Credits: 3

Core and Concentration (Major) Courses (36 credits)

- XXXX xxx - Interior Design Electives Credits: 6
(department-approved courses)
- XXXX xxx - Interdisciplinary Design Topic Credits: 3
(department-approved courses)
- XXXX xxx - Leadership/Communication Elective Credits: 3
(department-approved courses)
- INTR 306 - Interior and Furniture Styles I Cr. 3.
- INTR 307 - Interior and Furniture Styles II Cr. 3.
- INTR 308 - Contract Interior Design I Cr. 3.
- INTR 309 - Contract Interior Design II Cr. 3.
- INTR 400 - Interior Design Studio I Cr. 3
- INTR 402 - Professional Practice Cr. 3.
- INTR 404 - Interior Design Practicum Cr. 3.

Supporting Courses

- ENG W232 - Introduction to Business Writing Cr. 3.
- OLS 342 - Interviewing Strategies in Organizations Cr. 3.
- VCD P476 - Three-Dimensional Computer Modeling Cr. 3

Total Credits: 60

Interpersonal and Organizational Communication (B.A.)

Program: B.A.

Department of Communication

School of Arts and Sciences

Neff Hall 230 ~ 260-481-6825 ~ www.ipfw.edu/comm/

This program helps you understand human communication and develop skill and sensitivity in speaking, listening, and participating in varied communication situations. Courses focus on theory and practice in communication tasks ranging from interviewing to addressing large audiences. The degree program helps you prepare for a career in government, sales, public relations, law, public and social service, personnel, or business and industrial communication.

The Department of Communication offers related bachelor's degree programs in media and public communication and in speech communication teaching and a minor in media production for those students who want more courses in practical skills.

To earn the B.A. with a major in interpersonal and organizational communication, you must fulfill the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and the Department of Communication as listed below. You also must earn a minor in an appropriate discipline. Two courses in a major offered in the Department of Communication can also be counted in the required minor. If the minor is selected from an Arts and Sciences department, the courses may be used to satisfy distribution requirements in the School of Arts and Sciences.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundation

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of following Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- *Additional credits in Area III Credits: 3*
- COM 250 - Mass Communication and Society Cr. 3.
Credits: 0
(credits included in Major Courses, below)

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in COM) Credit: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in COM)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.
- COM 250 - Mass Communication and Society Cr. 3.
- COM 300 - Introduction to Communication Research Methods Cr. 3.
- COM 318 - Principles of Persuasion Cr. 3.
- COM 320 - Small Group Communication Cr. 3.
- COM 324 - Introduction to Organizational Communication Cr. 3.

Credits from among the following: 9

- COM 303 - Intercultural Communication Cr. 3.
- COM 310 - Family Communication Cr. 3.
- COM 325 - Interviewing: Principles and Practice Cr. 3.
- COM 410 - Gender Roles and Communication Cr. 3.
- COM 471 - Communicating Peace Cr. 3.
- COM 491 - Special Topics in Communication Cr. 1-3.

Credits from among the following: 6

- COM 507 - Introduction to Semiotics Cr. 3.
- COM 508 - Nonverbal Communication in Human Interaction Cr. 3.
- COM 512 - Theories of Interpersonal Communication Cr. 3.
- COM 516 - Analysis of Persuasive Messages Cr. 3.
- COM 518 - Theories of Persuasion Cr. 3.
- COM 520 - Small Group Communication Cr. 3.
- COM 523 - Communication in Personal Relationships Cr. 3.
- COM 525 - Advanced Interviewing Cr. 3.
- COM 574 - Organizational Communication Cr. 3.

Minor and Elective Courses

- Credits in approved minor Credits: 12–21
- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Labor Studies (B.S.)

Division of Labor Studies

Program Offered: B.S.L.S.

Kettler Hall G28 ~ 260-481-6831 ~ www.labor.iu.edu

To earn the Bachelor of Science in Labor Studies, you must fulfill the requirements of IPFW (see Part 7) and successfully complete the following courses.

Program Requirements

Credits from the Labor Studies Core Credits: 15

Credits from the following: 15

- LSTU L100 - Survey of Unions and Collective Bargaining Cr. 3.
- LSTU L101 - American Labor History Cr. 3.
- LSTU L110 - Introduction to Labor Studies: Labor and Society Cr. 3.
- LSTU L190 - The Labor Studies Degree Cr. 1.
- LSTU L200 - Survey of Employment Law Cr. 3.
- LSTU L201 - Labor Law Cr. 3.
- LSTU L203 - Labor and the Political System Cr. 3.
- LSTU L205 - Contemporary Labor Problems Cr. 3.
- LSTU L210 - Workplace Discrimination and Fair Employment Cr. 3.
- LSTU L220 - Grievance Representation Cr. 3.
- LSTU L230 - Labor and the Economy Cr. 3.
- LSTU L240 - Occupational Health and Safety Cr. 3.
- LSTU L250 - Collective Bargaining Cr. 3.
- LSTU L251 - Collective Bargaining Laboratory Cr. 1-3.
- LSTU L255 - Unions in State and Local Government Cr. 3.
- LSTU L260 - Leadership and Representation Cr. 3.
- LSTU L270 - Union Government and Organization Cr. 3.
- LSTU L280 - Union Organizing Cr. 3.

Required Areas of Learning for Labor Studies

Arts and Humanities

- Afro-American Studies
- Classical Studies
- Communication
- Comparative Literature
- English (except R150 and W130)
- Folklore
- Foreign Language
- History
- Journalism
- Music
- Philosophy
- Theatre
- Visual Arts

Sciences and Mathematics

- Anthropology (B200 and E445 only)
- Astronomy
- Biology
- Chemistry (except 100)
- Computer Science (includes BUS K200, K211, K212, K213, K214, K215, K216)
- Economics (E270 only)
- Entomology
- Forestry and Natural Resources
- Geography (G107 and G304 only)
- Geology
- Horticulture
- Mathematics (except 101, 102, 103, 109, 111, and 113)
- Physics
- Psychology (120, 201, 314, 333, 329, and 416 only)
- Sociology (S351 only)
- SPEA (K300 only)
- Statistics

Social and Behavior Sciences

- Anthropology
- Economics
- Geography
- Linguistics
- Political Science
- Psychology
- Sociology
- SPEA (J101 only)

- WOST (W210 only)

Additional credits in labor-studies courses Credits: 27

Arts and Humanities Area of Learning (12 credits)

- Credits in a second writing course Credits: 3
- Credits from at least two different subjects Credits: 6
- ENG W131 - Elementary Composition I Cr. 3.

Social and Behavioral Sciences Area of Learning Credits: 12

Credits; one economics course is required (ECON E201 recommended); courses in this area must be selected from at least two different subjects

Science and Mathematics Area of Learning Credits: 16

Credits, including one course in computer science; science and mathematics courses must be selected from at least two different subjects

Additional Credits from One Area of Learning Credits: 12

Electives Credits: 27

Note

You must earn a minimum of 20 credits after admission to labor studies and may apply toward the degree no more than 21 credits in a single subject other than labor studies. At least 30 of your credits must be in 300/400-level courses, including at least 12 credits in labor studies courses. You must complete at least 24 credits while enrolled as an IU student.

Total Credits: 120

LPN (B.S.)

Program: LPN B.S.

Department of Nursing

School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/nursing

LPN Mobility

Admission to the nursing program is competitive. LPN applicants must meet the following requirements:

- Be admitted to IPFW as a degree-seeking student (see Part 7).
- Be a graduate of an NLNAC or equivalent accredited practical nursing program.
- Have a minimum GPA of 3.0 or higher upon graduation from the LPN program.
- A minimum GPA does not guarantee admission. The actual GPA necessary for admission varies with the GPA distribution of the applicant pool and the number of available seats for admission.
- Have completed anatomy and physiology within five years of application.
- Applicants are required to take a preadmission examination. The examination is administered on specific dates and times. Applicants pay a testing fee.

NOTE: Students who have previously been dismissed from the IPFW nursing program, or any nursing degree program, and return under the above LPN admission criteria will be dismissed from the program with a failure of any one required nursing course.

LPN–A.S. or LPN–B.S.

A student who earns a grade of C or better in NUR 117 and NUR 224 will be awarded an additional 13 credit hours for the following first-year nursing courses:

NUR 115	5 credits
NUR 130	2 credits
NUR 202	6 credits

Program Requirements

LPN B.S. Core Credits: 70

- NUR (elective) Credits: 3
- NUR 103 - Professional Seminar I Cr. 2.
- NUR 117 - Associate Science Degree in Nursing Mobility Seminar Cr. 1.

- NUR 225 - Maternity Nursing Cr. 3.
- NUR 240 - Psychiatric Mental Health Nursing Cr. 4*.
- NUR 334 - Clinical Pathophysiology Cr. 4.
- NUR 336 - Nursing IIIB: Medical-Surgical Nursing of Adults Cr. 7.
- NUR 337 - Statistics and Data Management in Health Sciences Cr. 3.
- NUR 339 - Research in Healthcare Cr. 3.
- NUR 344 - Introduction to Healthcare Informatics Cr. 2.
- NUR 346 - Advanced Health Assessment Cr. 2.
- NUR 377 - Professional Seminar II Cr. 3.
- NUR 379 - Caring for Children and Families Cr. 3.
- NUR 418 - Community/Public Health Nursing Cr. 5.
- NUR 419 - Advanced Acute Care Nursing Cr. 5.
- NUR 423 - Professional Seminar III Cr. 2.
- NUR 433 - Advanced Concepts in Critical Thinking Cr. 1.
- NUR 442 - Leadership in Nursing Cr. 5.

Supporting Courses Credits: 52

- Credits in communication at the 300-400 level Credits: 3
- Credits in humanities (General Education IV) Credits: 6
- Credits in elective (General Education V) Credits: 3
- Credits in elective Credits: 3
- BIOL 203 - Human Anatomy and Physiology Cr. 4.
and
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- CHM 104 - Living Chemistry Cr. 3.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- FNN 303 - Essentials of Nutrition Cr. 3.
- PCTX 201 - Introductory Pharmacology Cr. 3-4.
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Total Credits: 122

Mathematics (B.S.)

Program Offered: B.S.

Department of Mathematical Sciences

School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

Programs leading to the Bachelor of Science help you prepare for employment in business and industry, teaching in secondary schools, or study for advanced degrees. As a mathematics major you choose one of six options: actuarial science, business, computing, mathematics, mathematics teaching, or statistics.

To earn a B.S. with a major in mathematics, you must satisfy the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and the Department of Mathematical Sciences. Required course work appears below.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- MA The quantitative-reasoning requirement is satisfied by mathematics courses below. Credits: 0
- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

See Part 2 General Education Requirements for approved courses

- Includes two laboratory courses (*The science courses must be selected from a list approved by the department.*)
Credits: 11

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in MA) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

Requirements in Arts and Sciences Part B Credits: 8

Core and Concentration (Major) Courses

Of the mathematics courses numbered below 261, only 165, 166, and 175 apply toward the degree; statistics courses must be numbered 490 or higher to be counted. You must have a grade-point average of C or better with at most one D in courses used to fulfill the major requirements.

- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
and
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 263 - Multivariate and Vector Calculus Cr. 4.
- MA 351 - Elementary Linear Algebra Cr. 3.

Choose one of the following:

- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 275 - Intermediate Discrete Math Cr. 3.

Option Courses (see below) Credits: 46–56

General Elective Courses

- Sufficient additional credits, if necessary, to bring the total to 124

Total Credits: 124

Actuarial Science Option

This option, designed in consultation with professionals from the insurance industry, includes courses that help you prepare for a variety of positions in that field. In particular, it helps you prepare for the first of the series of examinations by the Society of Actuaries. Additional information is available from the department.

- Credits in three electives selected from a list of courses approved by the department Credits: 9
- Credits in electives (two additional finance courses, BUS F302 and F420 highly recommended) Credits: 13-16
- BUS A201 - Principles of Financial Accounting Cr. 3.
- BUS A202 - Principles of Managerial Accounting Cr. 3.
- BUS F301 - Financial Management Cr. 3.
(before enrolling in F301, you must complete the following with grades of C or better: BUS A201-A202, CS 160, ECON E201-E202, MA 165, and STAT 511)
- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.
- STAT 511 - Statistical Methods Cr. 3.
- STAT 512 - Applied Regression Analysis Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.
- STAT 517 - Statistical Inference Cr. 3.

Business Option

This option is designed for students who plan to pursue a career in business or industry. In addition to obtaining useful mathematics and statistics tools, the student who completes his option will also receive a minor in business.

Option Specific Courses Credits: 21

- Credits in courses selected from a departmentally approved list (MA 363, 417/418, 441, 453, 511, 525, STAT 514, 517) Credits: 6
- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 314 - Introduction to Mathematical Modeling Cr. 3.
- STAT 511 - Statistical Methods Cr. 3.
- STAT 512 - Applied Regression Analysis Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Business Minor Credits: 22

- BUS A201 - Principles of Financial Accounting Cr. 3.
- BUS A202 - Principles of Managerial Accounting Cr. 3.
- BUS K211 - Spreadsheets for Business Cr. 1.
- BUS K212 - Introduction to Database Management Cr. 1.
- BUS K213 - Internet Literacy for Business Cr. 1.

- BUS L200 - Elements of Business Law Cr. 1.
- BUS W204 - Social, Legal, and Ethical Implications of Business Decisions Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.
(counted as a general education course in Area III)
- ECON E202 - Introduction to Macroeconomics Cr. 3.

Credits in two courses selected from the following list Credits: 6

- BUS D300 - International Business Administration Cr. 3.
- BUS F301 - Financial Management Cr. 3.
- BUS M301 - Marketing Management in a Competitive Environment Cr. 3.
- BUS P301 - Managing Operations in a Competitive Environment Cr. 3.
- BUS Z302 - Management of Organizations and People Cr. 3

General elective courses Credits: 10–13

Total Credits: 53-56

Computing Option

This option helps you prepare for computer-related careers for which a strong mathematical background is advantageous. The student who completes this option will also receive a minor in computer science.

Option Specific Courses Credits: 15

- MA 305 - Foundations of Higher Mathematics Cr. 3.

One of the following Credits: 3

- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

One of the following Credits: 3

- MA 441 - Real Analysis Cr. 3.
- MA 453 - Elements of Algebra Cr. 3.
- MA 511 - Linear Algebra with Applications Cr. 3.
- MA 556 - Introduction to the Theory of Numbers Cr. 3.
- MA 575 - Graph Theory Cr. 3.

Two of the following Credits: 6

- MA 441, 453, 511, 556, 575, STAT 511, or STAT 516 if not taken to satisfy above requirements.
- MA 314 - Introduction to Mathematical Modeling Cr. 3.
- MA 363 - Differential Equations Cr. 3.
- MA 417 - Mathematical Programming Cr. 3.
- STAT 512 - Applied Regression Analysis Cr. 3.
- STAT 517 - Statistical Inference Cr. 3.

Computer Science Minor Credits: 22

- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- CS 331 - Introduction to C++ and Object-Oriented Programming Cr. 3.

Two of the following Credits: 6

- Select two courses from a departmentally approved list Credits: 6
- Credits in electives: 16–19
- CS 384 - Numerical Analysis Cr. 3.
- CS 486 - Analysis of Algorithms Cr. 3.
- CS 488 - Theory of Computation Cr. 3.
- CS 543 - Introduction to Simulation and Modeling of Computer Systems Cr. 3.
- CS 572 - Heuristic Problem Solving Cr. 3.

Total Credits: 53-56

Mathematics Option

This option helps you prepare for graduate study in the mathematical sciences or for work in fields where a strong mathematical background is required.

Program Requirements

- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 363 - Differential Equations Cr. 3.
- MA 441 - Real Analysis Cr. 3.
- MA 453 - Elements of Algebra Cr. 3.

One of the following Credits: 3

- Credits in courses selected from a departmentally approved list Credits: 6
- Credits in electives: 31–34
- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Total Credits: 52-55

Mathematics Teaching Option

This option provides the mathematical preparation necessary for teaching secondary-school mathematics in Indiana. You are encouraged to choose and complete a teaching minor.

Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The Praxis II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

Information on additional requirements for teacher certification is available in the department office.

Program Requirements

- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 453 - Elements of Algebra Cr. 3.
- MA 560 - Fundamental Concepts of Geometry Cr. 3.

One of the following Credits: 3

- Credits in courses selected from a departmentally approved list Credits: 6
- Credits in electives: 34–37
- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Total Credits: 52–55

Statistics Option

This option helps you prepare for careers in business and industry and emphasizes the statistical methods used in decision making. It also provides entry-level preparation for an actuarial career.

Program Requirements

- Credits in courses selected from a departmentally approved list Credits: 6
- Credits in electives: 31–34

- STAT 511 - Statistical Methods Cr. 3.
- STAT 512 - Applied Regression Analysis Cr. 3.
- STAT 514 - Design of Experiments Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.
- STAT 517 - Statistical Inference Cr. 3.

Note

The research certificate is described under Arts and Sciences in Part 3 of this Bulletin.

Total Credits: 52-55

Mathematics Teaching (B.S.)

Program: B.S.

Department of Mathematical Sciences

School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

The B.S. program provides the mathematical preparation necessary for teaching secondary-school mathematics in Indiana and is designed to meet standards for teacher certification. Information on additional requirements for teacher certification is available in the department office. You are encouraged to choose and complete a teaching minor.

To earn a B.S. with a major in mathematics teaching, you must satisfy the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and the Department of Mathematical Sciences. Required course work appears below. (Note that you are not required to include foreign-language study.)

You should work closely with your academic advisor when choosing free electives and courses to meet the IPFW general-education requirements so as to ensure completion of the certification requirements set by the Indiana Professional Standards Board for teacher certification. Full information about teacher certification is available from the School of Education. To be certified, you must have a GPA of 2.00 or higher in the School of Arts and Sciences' general-education distribution areas of humanities and social and behavioral sciences. Additionally, you must have a GPA of 2.50 or higher in your teaching major of mathematical sciences and the professional education courses listed below. Each professional education course must be completed with a grade of C or better.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUC K201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- **MA** - The quantitative-reasoning requirement is satisfied by mathematics courses below. Credits: 0
- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences Credits: 11

See Part 2 General Education Requirements for approved courses

Includes two laboratory courses. (*Science courses must be selected from list approved by the department.*)

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in MA) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Core and Concentration (Major) Courses

Of the mathematics courses numbered below 261, only 165, 166, and 175 apply toward the degree; statistics courses must be numbered 490 or higher to be counted. You must have a grade-point average of C or better with at most one D in courses used to fulfill the mathematics concentration.

- Credits in courses selected from a departmentally approved list Credits: 6

- CS 114 - Introduction to Visual Basic Cr. 3.
- or
- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 263 - Multivariate and Vector Calculus Cr. 4.
- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 453 - Elements of Algebra Cr. 3.
- MA 560 - Fundamental Concepts of Geometry Cr. 3.

One of the following: Credits: 3

- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Professional Education

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC M448 - Methods of Teaching High School Mathematics Cr. 2-4.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
- EDUC P250 - General Educational Psychology Cr. 1-4.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.

Middle School Certification (Recommended)

- EDUC M470 - Practicum Cr. 3-8.

General Elective Courses

Sufficient additional credits to bring the total to 124. Some may be restricted depending on choices for general education requirements. You are encouraged to acquire a teaching minor (see School of Education for information).

Total Credits: 124

Mechanical Engineering (B.S.M.E.)

Program: B.S.M.E.

Department of Engineering

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 327 ~ 260-481-6362 ~ www.engr.ipfw.edu

B.S.M.E. Requirements

To earn the B.S.M.E. at IPFW, you must satisfy the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3); follow the special academic regulations that appear at the end of this section; and satisfactorily complete the following courses:

IPFW General Education Requirements Credits: 36

Area I—Linguistic and Numerical Foundations Credits: 10

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.

Area II—Natural and Physical Sciences Credits: 9

- CHM 115 - General Chemistry Cr. 4.
- PHYS 152 - Mechanics Cr. 5.

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses with the exception of IET 105.

- ECON E201 - Introduction to Microeconomics Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses.

Area V—Creative and Artistic Expression Credits: 2

- ENGR 120 - Graphical Communications and Spatial Analysis Cr. 2.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses with the exception of: MA 314, PHYS 325 and STAT 340

Freshman Engineering Credits: 6

- ENGR 101 - Introduction to Engineering Cr. 1.
- ENGR 121 - Computer Tools for Engineers Cr. 2.
- ENGR 199 - Introduction to Engineering Design Cr. 3.

Mathematics and Science Requirements Credits: 19

- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.

Core and Concentration (Major) Courses Credits: 50

- ME 293 - Measurements and Instrumentation Laboratory Credits: 2
- ENGR 221 - C and C++ Programming for Engineers Cr. 2.
- ME 200 - Thermodynamics I Cr. 3.
- ME 250 - Statics Cr. 3.
- ME 251 - Dynamics Cr. 3.
- ME 252 - Strength of Materials Cr. 3.
- ME 301 - Thermodynamics II Cr. 3.
- ME 303 - Material Science and Engineering Cr. 2.
- ME 304 - Mechanics and Materials Laboratory Cr. 1.
- ME 318 - Fluid Mechanics Cr. 3.
- ME 319 - Fluid Mechanics Laboratory Cr. 1.
- ME 321 - Heat Transfer Cr. 3.

- ME 322 - Heat Transfer Laboratory Cr. 1.
- ME 361 - Kinematics and Dynamics of Machinery Cr. 3.
- ME 369 - Machine Design Cr. 3.
- ME 371 - System Dynamics and Introduction to Control Cr. 4.
- ME 387 - Electronics and System Engineering through Robotics Cr. 3.
- ME 388 - Electronics and System Engineering through Robotics Lab Cr. 1.
- ME 487 - Mechanical Engineering Design I Cr. 3.
- ME 488 - Mechanical Engineering Design II Cr. 3.

Required Electrical and Computer Engineering Courses Credits: 3

- ECE 201 - Linear Circuit Analysis I Cr. 3.

Technical Elective Courses Credits: 12

Mechanical Engineering

- ME 373 - Numerical Methods for Engineers Cr. 3.
- ME 421 - Heating and Air Conditioning I Cr. 3.
- ME 424 - Design and Optimization of Thermal Systems Cr. 3.
- ME 425 - Intermediate Heat Transfer: Theory and Applications Cr. 3.
- ME 453 - Experimental Stress Analysis Cr. 3.
- ME 454 - Intermediate Dynamics with Computer Applications Cr. 3.
- ME 469 - Advanced Mechanics of Materials Cr. 3.
- ME 471 - Vibration Analysis Cr. 3.
- ME 480 - Finite Element Analysis Cr. 3.
- ME 497 - Mechanical Engineering Projects Cr. 1-6.
- ME 498 - Research in Mechanical Engineering I Cr. 3.
- ME 499 - Research in Mechanical Engineering II Cr. 3.

Electrical and Computer Engineering

- ECE 382 - Feedback System Analysis and Design Cr. 3.
- ECE 418 - Introduction to Computer Graphics Cr. 3.
- ECE 483 - Digital Control Systems - Analysis and Design Cr. 3.

Mathematics and Sciences

- CHM 371 - Physical Chemistry Cr. 3.
- MA 510 - Vector Calculus Cr. 3.
- MA 511 - Linear Algebra with Applications Cr. 3.
- MA 523 - Introduction to Partial Differential Equations Cr. 3.

- MA 525 - Introduction to Complex Analysis Cr. 3.
- PHYS 322 - Optics Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- STAT 511 - Statistical Methods Cr. 3.
- STAT 512 - Applied Regression Analysis Cr. 3.

Total Courses: 126

Mechanical Engineering Technology (B.S.)

Program: B.S.

Department of Mechanical and Industrial Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 205 ~ 260-481-6385 ~ www.mft.ipfw.edu

This program prepares graduates with knowledge, problem-solving ability, and hands-on skills to enter careers in analysis, applied design, development, implementation, manufacturing, testing, technical sales, evaluation, or oversight of mechanical systems and processes.

To earn the B.S. with a major in mechanical engineering technology, you must fulfill the requirements of IPFW (see Part 7); the College of Engineering, Technology, and Computer Science (see Part 3); and the A.S., and complete the following courses, earning a grade of C or better in those courses that serve as prerequisites:

IPFW General Education Requirements

Area III—The Individual, Culture, and Society

- ECON E201 - Introduction to Microeconomics Cr. 3.

Area IV—Humanistic Thought

See Part 2 General Education Requirements for approved courses Credits: 3

Area V—Creative and Artistic Expression

See Part 2 General Education Requirements for approved courses Credits: 3

Area VI—Inquiry and Analysis Credits: 6

Required Core and Concentration (Major) Courses

- IET 350 - Engineering Economy Cr. 3.
- MET 247 - Computer-Aided Tool and Fixture Design Cr. 3.
- MET 300 - Applied Thermodynamics Cr. 3.
Grade of C or better required
- MET 312 - Dynamics and Mechanisms Cr. 3.
- MET 347 - Programming of Automation Systems Cr. 3.
- MET 350 - Applied Fluid Mechanics Cr. 3.
- MET 360 - Heating, Ventilating, and Air Conditioning Cr. 3.
- MET 381 - Engineering Materials Cr. 3.
- MET 487 - Instrumentation and Automatic Control Cr. 3.
- MET 494 - Senior Design and Analysis Cr. 3.

Additional Required Technical Courses

- CHM 111 - General Chemistry Cr. 3.
- ECET 211 - Electrical Machines and Controls Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
Grade of C or better required
- MA 228 - Calculus for Technology II Cr. 3.

Computer Programming Elective Credits: 3

Additional Required Support Courses

- COM 323 - Business and Professional Speaking Cr. 3.

Additional Core and Concentration Electives Credits: 6

- Any two courses from IET and MET, or a course approved by an MET advisor.

Total Credits Including 65 from A.S.: 132

Media and Public Communication (B.A.)

Program: B.A.

Department of Communication

School of Arts and Sciences

Neff Hall 230 ~ 260-481-6825 ~ www.ipfw.edu/comm/

The major in media and public communication offers theoretical, critical, and practical perspectives to help you navigate the changing communication environment of the 21st century. The courses in this major help you understand communication and media practices and adapt to new technologies. These courses provide concepts and skills that enable you to think and write critically about media and public communication in relation to society, culture, and everyday life. In addition, course areas are available that give you practical experience in message design, media production, and communication performance. Graduates of the program have careers in public information, media production, writing for media, management, sales, advertising, and public relations.

The Department of Communication offers a bachelor's degree in interpersonal and organizational communication and a minor in media production for those students who want more courses in practical skills. Two courses in a major offered in the Department of Communication can also be counted in the required minor. If the minor is selected from an Arts and Sciences department, the courses may be used to satisfy distribution requirements in the school.

To earn the B.A. with a major in media and public communication, you must fulfill the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and the Department of Communication as listed below. You also must earn a minor in an appropriate discipline.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- Additional credits in Area III Credits: 3
- COM 250 - Mass Communication and Society Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in COM) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in COM)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.
- COM 250 - Mass Communication and Society Cr. 3.

- COM 300 - Introduction to Communication Research Methods Cr. 3.
- COM 318 - Principles of Persuasion Cr. 3.
- COM 330 - Theories of Mass Communication Cr. 3.

One of the following Credits: 3

- COM 251 - Introduction to the Electronic Mass Media Cr. 3.
Course taken to satisfy this requirement cannot also be counted in the 9 credit block below
- COM 316 - Controversy in American Society Cr. 3.
Course taken to satisfy this requirement cannot also be counted in the 9 credit block below

Credits from among the following: Credits: 9

- COM 251 - Introduction to the Electronic Mass Media Cr. 3.
Course taken to satisfy this requirement cannot also be counted in the 9 credit block below
- COM 303 - Intercultural Communication Cr. 3.
- COM 312 - Rhetoric in the Western World Cr. 3.
- COM 314 - Advanced Presentational Speaking Cr. 3.
- COM 316 - Controversy in American Society Cr. 3.
Course taken to satisfy this requirement cannot also be counted in the 9 credit block below
- COM 325 - Interviewing: Principles and Practice Cr. 3.
- COM 332 - Television Studio Production Cr. 3.
- COM 338 - Documentary and Experimental Film and Video Cr. 3.
- COM 352 - Mass Communication Law Cr. 3.
- COM 422 - Women, Men, and Media Cr. 3.
- COM 471 - Communicating Peace Cr. 3.
- COM 491 - Special Topics in Communication Cr. 1-3.

Credits from among the following Credits: 6

- COM 507 - Introduction to Semiotics Cr. 3.
- COM 515 - Persuasion in Social Movements Cr. 3.
- COM 516 - Analysis of Persuasive Messages Cr. 3.
- COM 517 - Communication in Politics Cr. 3.
- COM 518 - Theories of Persuasion Cr. 3.
- COM 521 - Theories of Rhetoric Cr. 3.
- COM 522 - History and Criticism of Public Communication Cr. 3.
- COM 527 - Introduction to Cultural Studies Cr. 3.
- COM 531 - Special Topics in Mass Communication Cr. 3.
- COM 557 - Legal Dimensions of Communication Cr. 3.
- COM 563 - Public Policy in Telecommunication Cr. 3.

Minor and Elective Courses

- Credits in an approved minor Credits: 12–21
- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Medical Technology (3+1 Program) (B.S.)

Program: B.S.

Department of Biology

School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

Dual B.S. in Biology and in Medical Technology (4+1 Program)

Under this plan you meet all the requirements for a B.S. with a major in biology. Then, during your senior year, you seek admission to an approved hospital school of medical technology and complete one year of technical experience there the following year. Upon successful completion of the hospital-school year, you have the option of petitioning IPFW for a second baccalaureate degree (dual B.S. in biology and medical technology).

B.S. with a Major in Medical Technology (3+1 Program)

Under this plan, you complete three years of course work at IPFW and then spend 12 months in an approved hospital medical technology program. To earn a B.S. with a major in medical technology under the 3+1 program, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3). You must also earn a GPA of 2.50 or higher in the biology core and in Group B-elective courses in biology. All biology courses applied toward graduation must be completed within 10 years from the time the first biology course was completed.

The Department of Biology has new facilities for its teaching and research programs, and its faculty represent many different fields within biology.

In the first semester of your junior year, you should see your advisor for assistance with applying to an approved school of medical technology. An approved school is one certified by Purdue University; Parkview Hospital in Fort Wayne is among those affiliated with this program.

When you are admitted to the hospital school for your final year, you must maintain registered-student status at IPFW for the fall and spring semesters and for both summer sessions. Upon successful completion of 12 months in the hospital school, you may substitute that experience for as much as 32 credits toward the B.S. in medical technology. You are responsible for seeing that IPFW receives official notification that you have successfully completed the hospital program.

To earn a B.S. with a major in medical technology under the 3+1 program, you must complete the following courses:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
(credits included in Supporting Courses, below)

One of the following Credits: 0

(credits included in Supporting Courses, below):

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Mathematics

- MA - See Part 2 General Education Requirements for approved courses Credits: 3

Area II—Natural and Physical Sciences

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
(credits included in Biology Core, below)
- CHM 115 - General Chemistry Cr. 4.
(credits included in Supporting Courses, below)

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis

Credits included in Supporting Courses, below

- CHM 224 - Introductory Quantitative Analysis Cr. 4.

Biology Core Courses (18 credits)

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.

Supporting Courses (57–59 credits)

- CS 107 - Introduction to Computers for Science Majors Credits: 3
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- STAT 240 - Statistical Methods for Biology Cr. 3.
- STAT 340 - Elementary Statistical Methods II Cr. 3.

One of the following sequences Credits: 8-10

- PHYS 201 - General Physics I Cr. 5.
- PHYS 202 - General Physics II Cr. 5.
- or
- PHYS 220 - General Physics Cr. 4.
- PHYS 221 - General Physics Cr. 4.

Credits in an international language Credits: 8

B-Elective Courses in Biology (10–11 credits)

- BIOL 437 - General Microbiology Cr. 4.
- BIOL 537 - Immunobiology Cr. 3.

Additional credits from among the following Credits: 3–4

- BIOL 215 - Basic Human Anatomy Cr. 4.
- BIOL 315 - Developmental Anatomy Cr. 4.
- BIOL 350 - Plant Physiology Cr. 4.
- BIOL 381 - Cell Biology Cr. 3.
- BIOL 382 - Laboratory in Cell Biology Cr. 1.
- BIOL 455 - Animal Physiology Cr. 3.
- BIOL 456 - Laboratory in Animal Physiology Cr. 1.
- BIOL 506 - Human Molecular Genetics Cr. 3.
- BIOL 509 - Molecular Biology and Applications Cr. 3.
- BIOL 515 - Molecular Genetics Cr. 3.
- BIOL 516 - Molecular Biology of Cancer Cr. 3.
- BIOL 533 - Medical Microbiology Cr. 3.
- BIOL 540 - Biotechnology Cr. 3.
- BIOL 544 - Principles of Virology Cr. 3.
- BIOL 559 - Endocrinology Cr. 3.
- BIOL 565 - Immunobiology Laboratory Cr. 1.
- BIOL 566 - Developmental Biology Cr. 3.
- BIOL 567 - Laboratory in Developmental Biology Cr. 1.
- BIOL 569 - Cellular Neurobiology Cr. 3.
- BIOL 584 - Molecular Biology and Applications Laboratory Cr. 1.

Hospital Program Credits: 32

Total Credits: 135–138

Music and an Outside Field (B.S.)

Program: B.S.

Department of Music

School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714 ~ www.ipfw.edu/vpa

This degree combines a major in music with an opportunity to study in one of many available nonmusic areas, such as business, communication, electrical engineering technology, psychology, or the sciences. Some outside fields have specific course requirements. Students should consult with an advisor in the Department of Music for this information. Some outside fields require a 3-credit internship as a part of the outside field hours, and others offer the internship as an option. Consult with your advisor. Ensemble participation is not required during the semester of internship.

To earn the B.S. in Music and an Outside Field, one must satisfy the requirements of IPFW (see Part 7) and the music core, and complete the courses listed below. Credits required in the outside field must be approved in writing by an appropriate faculty member in the outside-field program of study. A record of this approval from the outside-field department will be kept as a part

of your permanent file. A maximum of 6 credits in the outside field may be taken with the pass/not-pass option. An overall GPA of 2.50 or higher must be maintained in the outside field and is required for graduation. A course with a grade lower than C will not be counted toward outside-field course requirements.

IPFW General Education Requirements (33 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

Reading/Writing Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.

Quantitative Reasoning Credits: 3

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Music majors may not use MUS Z101 to fulfill Area IV requirements

- MUS Z105 - Traditions in World Music Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Music majors may not use MUS Z140 to fulfill Area V requirements

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Music Core Credits: 33

- MUS G370 - Techniques for Conducting Cr. 2.
- MUS M201 - Music Literature I Cr. 2.
- MUS M202 - Music Literature II Cr. 2.
- MUS M403 - History of Music I Cr. 3.
- MUS M404 - History of Music II Cr. 3.
- MUS T113 - Music Theory I Cr. 3.
- MUS T114 - Music Theory II Cr. 3.
- MUS T115 - Sightsinging and Aural Perception I Cr. 1.
- MUS T116 - Sightsinging and Aural Perception II Cr. 1.
- MUS T213 - Music Theory III Cr. 3.
- MUS T214 - Music Theory IV Cr. 3.
- MUS T215 - Sightsinging and Aural Perception III Cr. 1.
- MUS T216 - Sightsinging and Aural Perception IV Cr. 1.
- MUS T315 - Analysis of Musical Form Cr. 3.
- MUS U109 - Computer Skills for Musicians Cr. 2.

Performance Studies Credits: 29-30

Applied Primary (includes recital) Credits: 14

- MUS X095 - Performance Class Cr. 0.
(6 semesters)
- MUS X296 - Applied Music Upper Divisional Jury Examination Cr. 0.
- MUS X299 - Piano Proficiency Examination Cr. 0.
- MUS X301 - Recital: Concentration Level Cr. 0.

Applied Secondary Credits: 4-8

Non-keyboard concentrates take:

- MUS P111 - Class Piano I Cr. 1-2.
- MUS P121 - Class Piano II Cr. 1-2.
- MUS P131 - Class Piano III Cr. 1-2.
- MUS P141 - Class Piano IV Cr. 1-2.

Keyboard concentrates take:

- and 200-level applied study (**6 credits**)
- MUS P211 - Keyboard Techniques Cr. 1-2.

Ensembles Credits: 7-8

Outside Field Credits: 26-30

Some outside fields include in this credit range a 3-credit internship. These outside fields require only seven semesters of ensemble participation; consult your advisor.

Other Requirements

- Free electives Credits: 4-9

Total Credits: 129–137

Music Education (B.Mus.Ed)

Program: B.Mus.Ed.

Department of Music

School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714 ~ www.ipfw.edu/vpa

The music-education program provides preparation for teaching music in grades K–12. One may choose to concentrate in choral/general music education, or instrumental/general music education. Upon satisfactory completion of this program, one is eligible to apply for an Indiana teaching license in the appropriate concentration.

To earn the B.Mus.Ed., one must satisfy the requirements of IPFW (see Part 7), the music core, and the School of Education (see Part 3) and satisfactorily complete all music and professional education courses with a grade of C or better.

IPFW General Education Requirements Credits: 33

Area I—Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

Reading/Writing Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.

Quantitative Reasoning Credits: 3

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Music majors may not use MUS Z101 to fulfill Area IV requirements

- MUS Z105 - Traditions in World Music Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Music majors may not use MUS Z140 to fulfill Area V requirements

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Music Core Credits: 33

- MUS G370 - Techniques for Conducting Cr. 2.
- MUS M201 - Music Literature I Cr. 2.
- MUS M202 - Music Literature II Cr. 2.
- MUS M403 - History of Music I Cr. 3.
- MUS M404 - History of Music II Cr. 3.
- MUS T113 - Music Theory I Cr. 3.
- MUS T114 - Music Theory II Cr. 3.
- MUS T115 - Sightsinging and Aural Perception I Cr. 1.
- MUS T116 - Sightsinging and Aural Perception II Cr. 1.
- MUS T213 - Music Theory III Cr. 3.
- MUS T214 - Music Theory IV Cr. 3.
- MUS T215 - Sightsinging and Aural Perception III Cr. 1.
- MUS T216 - Sightsinging and Aural Perception IV Cr. 1.
- MUS T315 - Analysis of Musical Form Cr. 3.
- MUS U109 - Computer Skills for Musicians Cr. 2.

Performance Studies Credits: 29

Applied Primary (includes recital) Credits: 14

- MUS X296 - Applied Music Upper Divisional Jury Examination Cr. 0.

Applied Secondary Credits: 4-7

- MUS X095 - Performance Class Cr. 0.
- MUS X299 - Piano Proficiency Examination Cr. 0.
- MUS X301 - Recital: Concentration Level Cr. 0.

Non-keyboard concentrates take:

- MUS P111 - Class Piano I Cr. 1-2.
- MUS P121 - Class Piano II Cr. 1-2.
- MUS P131 - Class Piano III Cr. 1-2.
- MUS P141 - Class Piano IV Cr. 1-2.

Keyboard concentrates take:

- and 200-level applied study (**6 credits**)
- MUS P211 - Keyboard Techniques Cr. 1-2.

Ensembles Credits: 7

Professional Music Courses Credits: 10

- MUS K312 - Arranging for Instrumental and Vocal Groups Cr. 2.
- MUS M216 - Music Education Lab/Field Experience Cr. 0.
- MUS M236 - Introduction to Music Education Cr. 2.
- MUS M317 - Music Education Lab/Field Experience Cr. 0.
- MUS M318 - Music Education Lab/Field Experience Cr. 0.
- MUS M319 - Music Education Lab/Field Experience Cr. 0.
- MUS M337 - Methods and Materials for Teaching Instrumental Music Cr. 2.
- MUS M338 - Methods and Materials for Teaching Choral Music Cr. 2.
- MUS M339 - General Music Methods K-8 Cr. 2.
- MUS X297 - Music Education Upper Divisional Skills Examination Cr. 0.

Professional Music Concentration Courses Credits: 7-9

Choral and General Music

- MUS E494 - Voice Pedagogy Cr. 3.
- MUS G371 - Choral Conducting I Cr. 2.
- MUS V201 - Voice Class Cr. 1.
(nonvocal concentrates only)

Three of the following Credits: 3

- MUS G261 - String Techniques Cr. 1-2.
- MUS G272 - Clarinet and Saxophone Techniques Cr. 1-2.
- MUS G281 - Brass Instrument Techniques Cr. 1-2.
- MUS G337 - Woodwind Techniques Cr. 1-2.
- MUS G338 - Percussion Techniques Cr. 1-2.

Instrumental and General Music

- MUS G373 - Instrumental Conducting Cr. 2.
- MUS V201 - Voice Class Cr. 1.

Four of the following (excluding primary instrument) Credits: 4

- MUS G261 - String Techniques Cr. 1-2.
- MUS G272 - Clarinet and Saxophone Techniques Cr. 1-2.
- MUS G281 - Brass Instrument Techniques Cr. 1-2.
- MUS G337 - Woodwind Techniques Cr. 1-2.
- MUS G338 - Percussion Techniques Cr. 1-2.

Professional Education Courses Credits: 22

A GPA of 2.5 is required.

- EDUC M501 Portfolio Credits: 0
- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC M482 - Student Teaching: All Grades Cr. 1-16.
- EDUC P250 - General Educational Psychology Cr. 1-4.
- EDUC P254 - Educational Psychology for Teachers of All Grades Cr. 1-4.

Total Credits: 129–137

Music Performance (B.MUS.)

Program: B.Mus.

Department of Music

School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714 ~ www.ipfw.edu/vpa

The Bachelor of Music program provides an opportunity to earn a performance degree in voice, winds, strings, piano, or percussion.

To earn the Bachelor of Music, one must satisfy the requirements of IPFW (see Part 7) and the music core, and satisfactorily complete the following courses, and earn a grade of C or better in each music course.

IPFW General Education Requirements (33 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

Reading/Writing Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.

Quantitative Reasoning Credits: 3

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Music majors may not use MUS Z101 to fulfill Area IV requirements

- MUS Z105 - Traditions in World Music Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

- Music majors may not use MUS Z140 to fulfill
- Area V requirements
- Vocal Performance Majors must take THTR 134

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Music Core Credits: 33

- MUS G370 - Techniques for Conducting Cr. 2.
- MUS M201 - Music Literature I Cr. 2.
- MUS M202 - Music Literature II Cr. 2.
- MUS M403 - History of Music I Cr. 3.
- MUS M404 - History of Music II Cr. 3.
- MUS T113 - Music Theory I Cr. 3.
- MUS T114 - Music Theory II Cr. 3.
- MUS T115 - Sightsinging and Aural Perception I Cr. 1.
- MUS T116 - Sightsinging and Aural Perception II Cr. 1.
- MUS T213 - Music Theory III Cr. 3.
- MUS T214 - Music Theory IV Cr. 3.
- MUS T215 - Sightsinging and Aural Perception III Cr. 1.
- MUS T216 - Sightsinging and Aural Perception IV Cr. 1.
- MUS T315 - Analysis of Musical Form Cr. 3.
- MUS U109 - Computer Skills for Musicians Cr. 2.

Performance Studies Credits: 32

Applied Primary (includes recital) Credits: 16

- MUS X296 - Applied Music Upper Divisional Jury Examination Cr. 0.

Applied Secondary Credits: 4-7

- MUS X095 - Performance Class Cr. 0.
- MUS X299 - Piano Proficiency Examination Cr. 0.
- MUS X401 - Junior Recital: Performance Major Cr. 0.
- MUS X402 - Senior Recital: Performance Major Cr. 0.

Non-keyboard concentrates take:

- MUS P111 - Class Piano I Cr. 1-2.
- MUS P121 - Class Piano II Cr. 1-2.
- MUS P131 - Class Piano III Cr. 1-2.
- MUS P141 - Class Piano IV Cr. 1-2.

Keyboard concentrates take:

- and 200-level applied study (**6 credits**)
- MUS P211 - Keyboard Techniques Cr. 1-2.

Ensembles Credits: 8

Keyboard majors take major ensembles for 6 semesters and

- MUS X002 - Piano Accompanying Cr. 1-2.
for 2 semesters

Professional Music Courses and Free Electives Credits: 26

Piano Majors (26 credits)

- Keyboard literature Credits: 3
- Piano pedagogy Credits: 3
- Electives in music Credits: 6
- Free electives Credits: 14

Voice Majors (26 credits)

- Song literature Credits: 3
- Foreign language Credits: 8
- Diction Credits: 4

- Vocal pedagogy Credits: 3
- Opera Ensemble Credits: 2
- Elective credits in music Credits: 3
- Free electives Credits: 3

Instrumental Majors (26 credits)

- Instrumental literature Credits: 3
- Instrumental pedagogy Credits: 2
- Additional ensembles Credits: 6
Refer to *Department of Music Handbook*
- Elective credits in music Credits: 6
- Free electives Credits: 9

Total Credits: 120-123

Music Therapy (B.S.M.T.)

Program: B.S.M.T. Department of Music School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714 ~ www.ipfw.edu/vpa

Music therapists use music and music activities to promote health and rehabilitation for individuals of all ages with disabilities in a variety of agencies such as hospitals, schools, rehabilitation centers, and private practice settings. Students must satisfactorily complete a six-month internship at the conclusion of the required course work. Graduates of the B.S.M.T. program are eligible to sit for the national certification exam sponsored by the Certification Board for Music Therapists. Music therapy majors must work closely with an advisor to select general education courses that meet national certification requirements. Bachelor of Science in Music Therapy (B.S.M.T.) candidates have some specific general education courses in some categories.

Gerontology

For information about earning an undergraduate certificate in gerontology concurrently with the B.S.M.T., consult the gerontology program entry in this section of this Bulletin. Additional information is published in the *Department of Music Student Handbook*.

IPFW General Education Requirements (33 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

Reading/Writing Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.

Quantitative Reasoning Credits: 3

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

- BIOL 203 - Human Anatomy and Physiology Cr. 4.

Area III—The Individual, Culture, and Society Credits: 6

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.
- SOC S163 - Social Problems Cr. 3.

Area IV—Humanistic Thought Credits: 6

Music majors may not use MUS Z101 to fulfill Area IV requirements

See Part 2 General Education Requirements for approved courses

- MUS Z105 - Traditions in World Music Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

Music majors may not use MUS Z140 to fulfill Area V requirements

- MUS L153 - Introduction to Music Therapy Cr. 3.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Music Core Credits: 33

- MUS G370 - Techniques for Conducting Cr. 2.
- MUS M201 - Music Literature I Cr. 2.
- MUS M202 - Music Literature II Cr. 2.
- MUS M403 - History of Music I Cr. 3.
- MUS M404 - History of Music II Cr. 3.
- MUS T113 - Music Theory I Cr. 3.
- MUS T114 - Music Theory II Cr. 3.
- MUS T115 - Sightsinging and Aural Perception I Cr. 1.
- MUS T116 - Sightsinging and Aural Perception II Cr. 1.
- MUS T213 - Music Theory III Cr. 3.
- MUS T214 - Music Theory IV Cr. 3.
- MUS T215 - Sightsinging and Aural Perception III Cr. 1.
- MUS T216 - Sightsinging and Aural Perception IV Cr. 1.
- MUS T315 - Analysis of Musical Form Cr. 3.
- MUS U109 - Computer Skills for Musicians Cr. 2.

Performance Studies Credits: 26

- MUS X095 - Performance Class Cr. 0.
(5 semesters)
- MUS X299 - Piano Proficiency Examination Cr. 0.

Applied Primary (includes recital) Credits: 12

- MUS X269 - Upper Divisional Exam Credits: 0

Applied Secondary Credits: 4-7

Non-keyboard concentrates take:

- MUS P111 - Class Piano I Cr. 1-2.
- MUS P121 - Class Piano II Cr. 1-2.
- MUS P131 - Class Piano III Cr. 1-2.
- MUS P141 - Class Piano IV Cr. 1-2.

Keyboard concentrates take:

- and 200-level applied study (**6 credits**)
- MUS P211 - Keyboard Techniques Cr. 1-2.

Ensembles Credits: 6

Professional Music Therapy Courses Credits: 28

- MUS E253 - Functional Music Skills Cr. 2.
- MUS L253 - Music Therapy Observation Practicum Cr. 1.
- MUS L254 - Music Therapy Practicum I Cr. 1.
- MUS L340 - Music Therapy in Healthcare Settings Cr. 3.
- MUS L353 - Music Therapy Practicum II Cr. 1.
- MUS L354 - Music Therapy Practicum III Cr. 1.
- MUS L410 - Administrative and Professional Issues in Music Therapy Cr. 3.
- MUS L418 - Psychology of Music Cr. 3.
- MUS L419 - Introduction to Music Therapy Research Methods Cr. 3.
- MUS L420 - Clinical Processes in Music Therapy Cr. 3.
- MUS L421 - Music Therapy Practicum IV Cr. 1.
- MUS L422 - Music Therapy Theories and Techniques Cr. 3.
- MUS L424 - Music Therapy Internship Cr. 1-2.
- MUS U355 - Music and Exceptionality Cr. 4.
- MUS X298 - Music Therapy Upper Divisional Skills Examination Cr. 0.

Additional Requirements Credits: 7

- MUS K312 - Arranging for Instrumental and Vocal Groups Cr. 2.
- MUS L100 - Guitar Cr. 1.
- MUS V201 - Voice Class Cr. 1.
- PSY 350 - Abnormal Psychology Cr. 3.

General Electives Credits: 6

The following courses are recommended as general electives:

- HSRV 210 or HSRV 211
- AUS 115 - Introduction to Communicative Disorders Cr. 3.
- FOLK F101 - Introduction to Folklore Cr. 3.
or
- FOLK F111 - Introduction to World Folk Music Cr. 3.
- GERN G231 - Introduction to Gerontology Cr. 3.
- HSRV 211 - The Dynamics of Group Behavior Cr. 3.
- MUS E353 - Orff and Percussion Techniques for Music Therapy Cr. 1-6.
- MUS U410 - Creative Arts, Health, and Wellness Cr. 3.
- PHIL 312 - Medical Ethics Cr. 3.
- PSY 235 - Child Psychology Cr. 3.
or
- PSY 367 - Adult Development and Aging Cr. 3.
or
- SOC S331 - Sociology of Aging Cr. 3.

Total Credits: 129–132

Note

Music therapy majors must have at least seven courses in the behavioral/health/natural sciences. General electives may include courses required for the gerontology certificate program, a minor in psychology, or other program minor. See *Department of Music Handbook* for more options and further information.

Nursing (B.S.)

Program: B.S.

Department of Nursing

School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/nursing

Program Requirements

B.S. Core Credits: 70

- NUR (elective) Credits: 3
- NUR 103 - Professional Seminar I Cr. 2.
- NUR 115 - Nursing I: Introduction to Nursing Cr. 5.
- NUR 130 - Essential Clinical Skills Cr. 2.
- NUR 202 - Nursing II: Medical-Surgical Nursing of Adults Cr. 6.
- NUR 240 - Psychiatric Mental Health Nursing Cr. 4*.
- NUR 334 - Clinical Pathophysiology Cr. 4.
- NUR 336 - Nursing IIIB: Medical-Surgical Nursing of Adults Cr. 7.
- NUR 337 - Statistics and Data Management in Health Sciences Cr. 3.
- NUR 339 - Research in Healthcare Cr. 3.
- NUR 344 - Introduction to Healthcare Informatics Cr. 2.
- NUR 346 - Advanced Health Assessment Cr. 2.
- NUR 377 - Professional Seminar II Cr. 3.
- NUR 379 - Caring for Children and Families Cr. 3.
- NUR 418 - Community/Public Health Nursing Cr. 5.
- NUR 419 - Advanced Acute Care Nursing Cr. 5.
- NUR 423 - Professional Seminar III Cr. 2.
- NUR 433 - Advanced Concepts in Critical Thinking Cr. 1.
- NUR 442 - Leadership in Nursing Cr. 5.

Supporting Courses Credits: 52

- Credits in communication at the 300-400 level Credits: 3
- Credits in humanities (General Education IV) Credits: 6
- Credits in elective (General Education V) Credits: 3
- Credits in elective Credits: 3
- BIOL 203 - Human Anatomy and Physiology Cr. 4.
and
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- CHM 104 - Living Chemistry Cr. 3.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- FNN 303 - Essentials of Nutrition Cr. 3.
- PCTX 201 - Introductory Pharmacology Cr. 3-4.
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Total Credits: 122

Organizational Leadership and Supervision (B.S.)

Program: B.S.

Division of Organizational Leadership and Supervision

Neff Hall 288 ~ 260-481-6420 ~ www.ipfw.edu/ols

The bachelor's program focuses on leadership roles, the human relations concerns of supervisors and human resource issues. Courses emphasize current and future workplace topics, such as teamwork and work groups, facilitation skills, employee training and development, individual creativity and innovation, workforce diversity, employee health and safety, and overseeing change.

To earn the B.S. with a major in organizational leadership and supervision, you must satisfy the requirements of IPFW (see Part 7) and the Division of Organizational Leadership and Supervision (see Part 3); earn a grade of C or better in ENG W131, ENG W233 (or approved substitute), and each OLS course; and complete the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

OLS Core and Major Courses

- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 268 - Elements of Law Cr. 3.
- OLS 274 - Applied Leadership Cr. 3.
- OLS 375 - Training Methods Cr. 3.
- OLS 376 - Human Resources Issues Cr. 3.
- OLS 454 - Gender and Diversity in Management Cr. 3.
- OLS 474 - Conference Leadership Cr. 3.
- OLS 475 - Topics: Contemporary Supervisory Training Issues Cr. 3.
- OLS 485 - Leadership for Team Development Cr. 3.
- OLS 486 - Leadership: Management of Change Cr. 3.

OLS Electives Credits: 9

Technical Support Requirements

- OLS 106 - Computer Applications for Supervision Credits: 3
- BUS A201 - Principles of Financial Accounting Cr. 3.
- CS 106 - Introduction to Computers Cr. 3.
- ECON E200 - Fundamentals of Economics Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Choose from the following:

- COM 303 - Intercultural Communication Cr. 3.
- COM 323 - Business and Professional Speaking Cr. 3.
- COM 324 - Introduction to Organizational Communication Cr. 3.

Choose from the following: Credits: 3

- BUS A202 - Principles of Managerial Accounting Cr. 3.
- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- SPEA K300 - Statistical Techniques Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Concentration Credits: 21

In consultation with IPFW academic departments, OLS has compiled interdisciplinary career concentrations such as:

Human Resource Development

Human Resource Management

Environmental Health and Safety

Electrical Engineering Technology

Government

Health Services

Hotel, Restaurant, Tourism Management

Industrial Engineering Technology

Interior Design

Information Systems

Journalism

Public Relations

Quality Control

Service Industry

A minor may be substituted for the concentration. See the OLS academic advisor for additional information.

Unrestricted Electives Credits: 9

Total Credits: 123

Note

Lists of specific courses required for each career concentration are available at the OLS office (Neff 288). Other options for filling this requirement include using an IPFW-recognized minor as a basis for your concentration area or designing a concentration that reflects your own career goals. Your proposal for an alternative concentration and a formal plan of study must be accepted by an OLS faculty advisor and approved by the OLS chair. If your plan is approved, it will become a formal part of your degree requirements.

Special Academic Regulations for Organizational Leadership and Supervision Degree Programs

Transfer students and students planning to change their major to organizational leadership and supervision must have a GPA of 2.00 or higher to be admitted into the program. A cumulative GPA of 2.0 or above is also required to remain in the division.

OLS, business, and technical courses taken more than 10 years ago will not count towards your degree requirements.

Students receiving credit for cooperative education experience can use these credits as unrestricted electives only.

If you have not registered for degree-applicable courses as an IPFW OLS major for four consecutive semesters (excluding summer), you must satisfy the degree requirements specified in the IPFW Bulletin that includes your year of re-entry.

Philosophy (B.A.)

Program: B.A.

Department of Philosophy School of Arts and Sciences

Neff Hall 130 ~ 260-481-6366

The major in philosophy is a traditional humanities and liberal-arts program covering the principal branches and divisions of philosophy with an emphasis on the history of philosophy. The philosophy major is good preparation for graduate study in philosophy. Some students who major in philosophy do so with the intention of becoming teachers of philosophy. The philosophy major also serves as a preprofessional program for the ministry, law, or health sciences. It is often possible for a student to be a double major in philosophy and something else.

To earn the Bachelor of Arts with a major in philosophy, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and complete the following courses:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought

See Part 2 General Education Requirements for approved courses

- Additional credits in Area IV Credits: 3
- PHIL 110 - Introduction to Philosophy Cr. 3.
(credits included in Major Courses, below)

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in PHIL) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in PHIL)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D
- PHIL 110 - Introduction to Philosophy Cr. 3.
(credits included in Major Courses, below)

Core and Concentration (Major) Courses

- PHIL 110 - Introduction to Philosophy Cr. 3.
- PHIL 111 - Ethics Cr. 3.
- PHIL 150 - Principles of Logic Cr. 3.
- PHIL 303 - History of Modern Philosophy Cr. 3.
- PHIL 450 - Symbolic Logic Cr. 3.

Credits in two of the following: Credits: 6

- PHIL 301 - History of Ancient Philosophy Cr. 3.
- PHIL 302 - History of Medieval Philosophy Cr. 3.
- PHIL 304 - 19th Century Philosophy Cr. 3.

Additional credits in PHIL courses, including one at the 500 level Credits: 9

General Elective Courses

Sufficient additional credits to bring the total to 124.

Total Credits: 124

Physics (B.S.)

Program: B.S.

Department of Physics

School of Arts and Sciences

Kettler Hall 126B ~ 260-481-6306 ~ www.ipfw.edu/physics/

This program helps you prepare for graduate study in physics or for careers in industry. You may also be interested in physical science teaching certification (listed separately in this Bulletin).

If you wish to transfer to physics from another degree program, you must have an average of C or better in all physics and mathematics courses you have completed and not more than one grade below C in those courses.

To remain in the degree program, you must maintain a GPA of 2.00 or higher in physics courses. You may take a minor of 24–30 credits in a second science or in engineering. For this minor, a plan of study is developed with your advisor. You may substitute courses in the minor for PHYS 361. Typical minor programs chosen by physics majors are mathematics and electrical engineering.

To earn the B.S. with a major in physics, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), in addition to the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
(credits included in Supporting Courses, below)

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- CHM 115 - General Chemistry Cr. 4.
(credits included in Supporting Courses, below)
- PHYS 152 - Mechanics Cr. 5.
(credits included in Major Courses, below)

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in PHYS) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 8

Core and Concentration (Major) Courses

- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 330 - Intermediate Electricity and Magnetism Cr. 3.
- PHYS 331 - Electricity and Magnetism II Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.
- PHYS 345 - Optics Laboratory I Cr. 1.
- PHYS 346 - Advanced Laboratory I Cr. 1.
- PHYS 361 - Electronics for Scientists Cr. 4.
- PHYS 515 - Thermal and Statistical Physics Cr. 3.
- PHYS 520 - Mathematical Physics Cr. 3.
- PHYS 550 - Introduction to Quantum Mechanics Cr. 3.

One of the following: Credits: 3

- Additional credits in mathematics
- PHYS 325 - Scientific Computing Cr. 3.

Supporting Courses

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Physics Teaching (B.S.)

Program: Physics Teaching B.S.

Department of Physics

School of Arts and Sciences

Kettler Hall 126B ~ 260-481-6306 ~ www.ipfw.edu/physics/

This program helps you prepare for teaching physical science in the high schools. You may also be interested in physical science teaching certification (listed separately in this Bulletin).

You should work closely with your academic advisor to ensure completion of general-education requirements for teacher certification. To be certified to teach, you must have a GPA of 2.00 or higher in the general-education areas of humanities and social and behavioral sciences. Additionally, you must have a GPA of 2.50 or higher in your major and the professional-education course area. Each professional-education course must be completed with a grade of C or better.

The School of Education requires that you first complete EDUA F300, EDUC W200/M101, and EDUC K201 before you are permitted to take professional education courses. Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam in physics must be completed before or during the student-teaching semester, normally in your senior year.

If you wish to transfer to physics teaching from another degree program, you must have an average of C or better in all physics and mathematics courses you have completed, and not more than one grade below C in those courses.

To earn the B.S. with a major in physics teaching, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) in addition to the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
Credits: 0
(credits included in Supporting Courses, below)

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- CHM 115 - General Chemistry Cr. 4.
Credits: 0
(credits included in Supporting Courses, below)
- PHYS 152 - Mechanics Cr. 5.
Credits: 0
(credits included in Major Courses, below)

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in PHYS) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Core and Concentration (Major) Courses

- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 330 - Intermediate Electricity and Magnetism Cr. 3.
- PHYS 331 - Electricity and Magnetism II Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.
- PHYS 345 - Optics Laboratory I Cr. 1.
- PHYS 346 - Advanced Laboratory I Cr. 1.
- PHYS 515 - Thermal and Statistical Physics Cr. 3.
- PHYS 520 - Mathematical Physics Cr. 3.
- PHYS 550 - Introduction to Quantum Mechanics Cr. 3.

Supporting Courses

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.

Teacher Education Program Requirements

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC W200 - Using Computers for Education Cr. 1.

Credits: 1

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC M449 - Methods of Teaching Science in the Secondary Schools Cr. 3.
- EDUC M470 - Practicum Cr. 3-8.
Credits: 4
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
Credits: 12
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.
Credits: 3
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

Total Credits: 125

Political Science (B.A.)

Program: B.A.

Department of Political Science

School of Arts and Sciences

Classroom-Medical Building 209 t 260-481-6686 ~ www.ipfw.edu/pols

To earn the B.A. with a major in political science, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and complete the following courses:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- Additional credits in Area III Credits: 3

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in POLS) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- POLS Y205 - Elements of Political Analysis Cr. 3.

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in POLS)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- **POLS Yxxx** - additional POLS credits, 100 level or above Credits: 6
- **POLS Yxxx** - additional POLS credits, 200 level or above Credits: 15
- POLS Y205 - Elements of Political Analysis Cr. 3.
- POLS Y395 - Quantitative Political Analysis Cr. 3.
- POLS Y490 - Senior Seminar in Political Science Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Teacher Certification

You may be certified as a teacher of social studies after fulfilling all requirements for the B.A. with a major in political science and all requirements for teacher certification. Full information on teacher certification requirements is available from the School of Education.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUC K201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

Notes

Neither Y398 (Internship in Urban Institutions) nor Y482 (Practicum) may count for more than 6 credits for the major; these two courses together may not count for more than 9 credits for the major.

Psychology (B.A.)

Program: B.A.

Department of Psychology

School of Arts and Sciences

Neff Hall 388 ~ 260-481-6403 ~ www.ipfw.edu/psyc

The Bachelor of Arts with a major in psychology is for the person seeking a career in psychology or a closely related field. The degree program provides a liberal-arts education in psychology as well as preparation for graduate school. A current IPFW student must have a cumulative GPA of 2.0 to declare psychology as a major. After two consecutive semesters in which a psychology major's cumulative GPA falls below 2.0, the student will no longer be eligible to be a psychology major. Two subsequent consecutive semesters with the cumulative GPA at or above 2.0 will permit a student to petition for reinstatement as a psychology major.

To earn the B.A. with a major in psychology, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), in addition to fulfilling the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- Additional credits in Area III Credits: 3

- PSY 120 - Elementary Psychology Cr. 3.
(credits included in Major Courses, below)

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in PSY) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Cultural Studies

- Requirements in Arts and Sciences Part D Credits:

Core and Concentration (Major) Courses

- PSY 100 - Introduction to the Science and Fields of Psychology Cr. 1.
- PSY 120 - Elementary Psychology Cr. 3.
- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- PSY 203 - Introduction to Research Methods in Psychology Cr. 3.
- PSY 314 - Introduction to Learning Cr. 3.
- PSY 329 - Psychobiology II: Principles of Psychobiological Psychology Cr. 3.
- PSY 416 - Cognitive Psychology Cr. 3.

Three of the following: Credits: 9

- PSY 235 - Child Psychology Cr. 3.

Credit not given for both PSY 235 and PSY 369

- PSY 240 - Introduction to Social Psychology Cr. 3.
- PSY 350 - Abnormal Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.

Credit not given for both PSY 235 and PSY 369

- PSY 420 - Introduction to Personality Theory Cr. 3.

One of the following: Credits: 3

- PSY 444 - Human Sexual Behavior Cr. 3.
- PSY 480 - Field Experience in Psychology Cr. 3.
- PSY 490 - Practicum in Psychotherapy Cr. 3.
- PSY 499 - Honors Thesis in Psychology Cr. 3.
- PSY 540 - History of Psychology Cr. 3.
- PSY 550 - Introduction to Clinical Psychology Cr. 3.

Additional credits in psychology at the 200 level or above Credits: 9

Successful completion of the Major Field Test in Psychology

General Elective Courses

Sufficient additional credits to bring the total to 124.

Total Credits: 124

Public Affairs (B.S.P.A.)

Program: Bachelor of Science in Public Affairs

Neff Hall 260 ~ 260-481-6351 ~ www.ipfw.edu/spea/

The B.S.P.A. program provides a background in the liberal arts and a focus on public affairs. This degree offers majors in the criminal justice, environmental policy, health services administration, legal studies, and public management. In addition, a specialized study major may be developed with the approval of a faculty advisor and the program director to meet special career needs. Internships are available and strongly encouraged so that qualified students have the opportunity to apply classroom theory and techniques to real-life experiences. The internship program is designed for maximum flexibility; internships can be full or part time, paid or unpaid, credit or noncredit.

The SPEA curriculum is divided into four categories — general education, public affairs core, a major area, and general electives. The B.S.P.A. requires a minimum of 120 credit hours with a 2.00 or higher cumulative grade-point average and a 2.30 or higher average in core and major courses. No more than 88 credits may be transferred from other accredited institutions, and no more than 10 credits can be taken by correspondence through the IU School of Continuing Studies. A maximum of 10 credits may be awarded for military experience, and a maximum of 12 credits may be awarded for police academy training. Courses

taken to meet specific SPEA degree requirements cannot be used to satisfy any other SPEA degree requirement, but may be double-counted to satisfy the IPFW general-education distribution requirement.

To earn the Bachelor of Science in Public Affairs at IPFW, you must fulfill the requirements of IPFW (see Part 7) and the Division of Public and Environmental Affairs, and complete the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

Reading/Writing Credits: 3

One of the following:

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Listening/Speaking Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.

Quantitative Reasoning Credits: 3

See Part 2 General Education Requirements for approved courses.

Note on double counting

Some courses may be used to fulfill both Quantitative Reasoning and the SPEA Quantitative Methods requirements.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses.

Note on double counting

Some courses may be used to fulfill both Area II and the SPEA Natural Sciences requirements.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses.

Note on double counting

Some courses may be used to fulfill both Area III and SPEA Arts and Humanities or SPEA Social and Behavioral Sciences requirements.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses.

Note on double counting

Some courses may be used to fulfill both Area IV and the SPEA Arts and Humanities requirement.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Note on double counting

Some courses may be used to fulfill both Area V and the SPEA Arts and Humanities requirement.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Note on double counting

Some courses may be used to fulfill both Area VI and the SPEA Social and Behavioral Sciences or Humanistic Thought requirements.

Division of Public and Environmental Affairs

General Distribution Requirements

Communication (3 credits)

One of the following courses: Credits: 3

- ENG W232 - Introduction to Business Writing Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Quantitative Methods (9 credits)

Three credits from the following: Credits: 3

- BUS K200 - Computer Literacy Concepts for Business Cr. 0.
- BUS K211 - Spreadsheets for Business Cr. 1.
- BUS K212 - Introduction to Database Management Cr. 1.
- BUS K213 - Internet Literacy for Business Cr. 1.

- CS 106 - Introduction to Computers Cr. 3.

One of the following courses: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- MA 213 - Finite Mathematics I Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

One of the following courses: Credits: 3

- ECON E270 - Introduction to Statistical Theory in Economics and Business I Cr. 3.
- SOC S351 - Social Statistics Cr. 3.
- SPEA K300 - Statistical Techniques Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Arts and Humanities (12 credits)

- Arts and humanities electives Credits: 6
Choose two courses from at least two of the following subject areas not used to fulfill another requirement: classical studies, communication, English literature, fine arts, folklore, international languages, history, honors (humanities only), music, philosophy, religious studies, theatre.
- HIST H105 - American History I Cr. 3.
- HIST H106 - American History II Cr. 3.

Natural Science (8 credits)

Select from the following courses:

- AST A105
- ASTA 110
- GEOL G111
- GEOL G112
- AST A100 - The Solar System Cr. 3.
- BIOL 100 - Introduction to the Biological World Cr. 3.
- BIOL 100L - Introduction to the Biological World Laboratory Cr. 1.
- BIOL 108 - Biology of Plants Cr. 4.
- BIOL 109 - Biology of Animals Cr. 4.
- BIOL 203 - Human Anatomy and Physiology Cr. 4.
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- CHM 111 - General Chemistry Cr. 3.
- CHM 112 - General Chemistry Cr. 3.

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- GEOG G107 - Physical Systems of the Environment Cr. 3.
- GEOL G100 - General Geology Cr. 3-5.
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G108 - Selected Earth Science Topics Cr. 1-3.
- GEOL L100 - General Geology Laboratory Cr. 1-2.
- GEOL S100 - General Geology (Honors) Cr. 5.
- PHYS 131 - Concepts in Physics I Cr. 3.
- PHYS 132 - Concepts in Physics II Cr. 3.
- PHYS 201 - General Physics I Cr. 5.
- PHYS 218 - General Physics Cr. 4.

Social and Behavioral Sciences (15 credits)

- Two courses from the following areas: Credits: 6
anthropology, criminal justice, economics, geography (selected), journalism, linguistics, political science, psychology (selected), sociology, women's studies
- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.
- SPEA V371 - Financing Public Affairs Cr. 3.

Public Affairs Core

(must earn a C or better in each of these courses)

- SPEA E162 - Environment and People Cr. 3.
- SPEA H120 - Contemporary Health Issues Cr. 1-3.
- SPEA J101 - The American Criminal Justice System Cr. 3.
- SPEA V170 - Introduction to Public Affairs Cr. 3.

Major

(Choose one major, 27–30 cr.)

Criminal Justice (30 credits)

(Charles "Bud" Meeks Criminal Justice Program)

- SPEA J201 - Theoretical Foundations of Criminal Justice Policies Cr. 3.
- SPEA J202 - Criminal Justice Data, Methods, and Resources Cr. 3.
- SPEA J301 - Substantive Criminal Law Cr. 3.
- SPEA J306 - The Criminal Courts Cr. 3.
- SPEA J321 - American Policing Cr. 3.

- SPEA J331 - Corrections Cr. 3.
- SPEA J439 - Crime and Public Policy Cr. 3.

Additional approved SPEA courses Credits: 9

maximum 6 credits in the following:

- SPEA J380 - Internship in Criminal Justice Cr. 3.
- SPEA V380 - Internship in Public Affairs Cr. 1-6.

Environmental Policy (27 credits)

- SPEA E400 - Topics in Environmental Studies Cr. 3.
- SPEA H316 - Environmental Science and Health Cr. 3.
- SPEA H416 - Environmental Health Policy Cr. 3.
- SPEA V376 - Law and Public Policy Cr. 3.

Choose one of the following:

- BIOL 349 - Environmental Science Cr. 3.
- SPEA E272 - Introduction to Environmental Sciences Cr. 3.

12 credits from among the following:

- **AGRY 225** Soil Science Credits: 3
- **ENTM 306** General Applied Entomology Credits: 2
- **FNR 225** Dendrology and Wildland Plants Credits: 3
- **SOC S407** Society of the Future Credits: 3
- ANTH E320 - Indians of North America Cr. 3.
- ANTH E401 - Ecology and Culture Cr. 3.
- BIOL 217 - Intermediate Ecology Cr. 3.
- COM 316 - Controversy in American Society Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.
- LSTU L240 - Occupational Health and Safety Cr. 3.
- PHIL 328 - Ethics and Animals Cr. 3.
- POLS Y367 - International Law Cr. 3.
- SOC S309 - The Community Cr. 3.
- SPEA V365 - Urban Development and Planning Cr. 3.
- SPEA V372 - Government Finance and Budgets Cr. 3.
- SPEA V380 - Internship in Public Affairs Cr. 1-6.
- SPEA V390 - Readings in Public Affairs Cr. 1-3.
- SPEA V450 - Contemporary Issues in Public Affairs Cr. 1-3.
(approved topics)
- SPEA V465 - Geographic Information Systems for Public and Environmental Affairs Cr. 3.

- SPEA V490 - Directed Research in Public and Environmental Affairs Cr. 1-3.

Health Services Administration (27 credits)

- SPEA H320 - Health Systems Administration Cr. 3.
- SPEA H322 - Principles of Epidemiology Cr. 3.
- SPEA H352 - Health Finance and Budgeting Cr. 3.
- SPEA H402 - Hospital Administration Cr. 3.
- SPEA H411 - Long-Term Care Administration Cr. 3.

One of the following: Credits: 3

- SPEA H371 - Human Resource Management in Healthcare Facilities Cr. 3.
- SPEA V366 - Managing Behavior in Public Organizations Cr. 3.
- SPEA V373 - Human Resources Management in the Public Sector Cr. 3.

Additional approved SPEA courses Credits: 9

maximum 6 credits in the following:

- SPEA J380 - Internship in Criminal Justice Cr. 3.
- SPEA V380 - Internship in Public Affairs Cr. 1-6.

Legal Studies (30 credits)

- POLS Y304 - American Constitutional Law I Cr. 3.
- POLS Y305 - American Constitutional Law II Cr. 3.
- SPEA V376 - Law and Public Policy Cr. 3.
- SPEA V377 - Legal Process and Contemporary Issues in America Cr. 3.
- SPEA V405 - Public Law and the Legislative Process Cr. 3.

Two of the following: Credits: 6

- SPEA H441 - Legal Aspects of Healthcare Administration Cr. 3.
- SPEA J301 - Substantive Criminal Law Cr. 3.
- SPEA J302 - Procedural Criminal Law Cr. 3.
- SPEA J304 - Correctional Law Cr. 3.
- SPEA V260 - Topics in Public Affairs Cr. 1-3.
- SPEA V406 - Public Law and the Electoral Process Cr. 3.
- SPEA V407 - Public Law and Government Relations Cr. 3.
- SPEA V456 - Topics in Public Law Cr. 3.

Two of the following: Credits: 6

- BUS L303 - Commercial Law II Cr. 3.
- ENG W331 - Business and Administrative Writing Cr. 3.
- HIST A349 - Afro-American History Cr. 3.
- HIST H260 - History of Women in the United States Cr. 3.
- JOUR J300 - Communications Law Cr. 3.
- OLS 468 - Personnel Law Cr. 3.
- PHIL 260 - Philosophy and Law Cr. 3.
- POLS Y328 - Women and the Law Cr. 3.
- POLS Y367 - International Law Cr. 3.
- PSY 381 - Psychology and Law Cr. 3.

Public Management (27 credits)

- SPEA V263 - Public Management Cr. 3.
- SPEA V264 - Urban Structure and Policy Cr. 3.
- SPEA V348 - Management Science Cr. 3.
- SPEA V366 - Managing Behavior in Public Organizations Cr. 3.
- SPEA V372 - Government Finance and Budgets Cr. 3.
- SPEA V376 - Law and Public Policy Cr. 3.

Three additional approved SPEA courses Credits: 9

maximum 6 credits in the following:

- SPEA J380 - Internship in Criminal Justice Cr. 3.
- SPEA V380 - Internship in Public Affairs Cr. 1-6.

Specialized Study Major (27 credits)

Four approved SPEA courses at the 300–400 level Credits: 12

maximum 6 credits in the following:

- SPEA J380 - Internship in Criminal Justice Cr. 3.
- SPEA V380 - Internship in Public Affairs Cr. 1-6.

Five additional approved 300–400 level courses Credits: 15

General Electives (25–28 credits)

Select additional courses to equal 120 credits.

Total Credits: 120

RN–B.S.

Program: RN B.S. Department of Nursing School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/nursing

Admission into the RN–B.S. nursing program requires that the applicant be a graduate of a state-accredited associate degree or diploma program in nursing and have a minimum cumulative GPA of 2.3 on a 4.0 scale. A current Indiana nursing license is required prior to taking the first clinical nursing course.

Credit required from the lower division includes:

30	credits nursing
12	credits in biological and physical sciences <i>must include 3 credits of chemistry</i>
6	credits in social sciences
3	credits in written communication skills
9	credits in electives

Program Requirements

Credits from the A.S. in nursing Credits: 60

Nursing Core Credits: 37

- **NUR (elective) Credits: 3**
- NUR 334 - Clinical Pathophysiology Cr. 4.
- NUR 337 - Statistics and Data Management in Health Sciences Cr. 3.
- NUR 339 - Research in Healthcare Cr. 3.
- NUR 344 - Introduction to Healthcare Informatics Cr. 2.
- NUR 346 - Advanced Health Assessment Cr. 2.

- NUR 377 - Professional Seminar II Cr. 3.
- NUR 418 - Community/Public Health Nursing Cr. 5.
Credits: 5
- NUR 419 - Advanced Acute Care Nursing Cr. 5.
Credits: 5
- NUR 423 - Professional Seminar III Cr. 2.
- NUR 442 - Leadership in Nursing Cr. 5.
Credits: 5

Supporting Courses Credits: 21

- Credits in communication at the 300-400 level Credits: 3
- Credits in humanities (General Education IV) Credits: 6
- Credits in elective (General Education V) Credits: 3
- Credits in elective Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Total Credits: 58

Secondary Education-Adolescence/Young Adulthood Concentration (B.S.Ed.)

Program: B.S.Ed.

Department of Educational Studies

School of Education

Neff Hall 250 ~ 260-481-6441

The B.S.Ed. in secondary education is intended to prepare students for successful careers as teachers of children in middle school/junior high and high school settings. The secondary education degree is divided into two concentrations: early adolescence, for middle school/junior high settings, and adolescence/young adulthood, for high school settings. Pre-service teachers must choose one or both concentrations to complete the degree. Upon satisfactory completion of the program, and the other requirements listed under Teacher Licensure in the Special Academic Regulations, you are eligible to apply for an Indiana teaching license.

To earn the B.S.Ed. in secondary education, you must satisfy the requirements of IPFW (see part 7) and the School of Education.

School Setting: High School

General Education Credits: 45

School of Education Credits: 34

Content Area Majors, variable credits depending on the program

Elective credits variable, but must be at least 124.

IPFW General Education Requirements Credits: 45

Area I—Linguistic and Numerical Foundations Credits: 12

- COM 114 - Fundamentals of Speech Communication Cr. 3.
(grade of B or better required)
- ENG W131 - Elementary Composition I Cr. 3.
(grade of B or better required)
- ENG W233 - Intermediate Expository Writing Cr. 3.

Any college-level math including: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 9

See Part 2 General Education Requirements for approved courses

- Biology Credits: 3

Two of the following: Credits: 6

- ANTH B200 - Bioanthropology Cr. 3.
astronomy, chemistry, geology, or physics

Area III—The Individual, Culture, and Society Credits: 9

See Part 2 General Education Requirements for approved courses

One of the following: Credits: 3

- American history or world history or humanities (FWAS H201 or H202)

One of the following: Credits: 3

- political science or sociology

One of the following: Credits: 3

- anthropology, business, economics, folklore, journalism, linguistics, psychology, or public and environmental affairs

Area IV—Humanistic Thought Credits: 9

See Part 2 General Education Requirements for approved courses

- English Literature Credits: 3

One of the following: Credits: 3

- INTR 220 - Architecture and Urban Form Cr. 3.
or fine arts or music

One of the following: Credits: 3

- film or philosophy or theatre

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI- Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Education Requirements

Initial Requirements:

- PPST (Pre-Professional Skills Test)
- EDUA F300 - Invitation to Teaching Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.

Credits: 1

- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
(a grade of B or better is required)
Credits: 0
- EDUC W200 - Using Computers for Education Cr. 1.
(a grade of B or better is required)

Block 1: Teacher Education

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3

Block 2: Professional Education

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.
Credits: 3
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

One methods course from your content major: Credits: 3

- EDUC M443 - Methods of Teaching High School Social Studies Cr. 3.
- EDUC M445 - Methods of Teaching Foreign Languages Cr. 3.
- EDUC M447 - Methods of Teaching High School English Cr. 3.
- EDUC M448 - Methods of Teaching High School Mathematics Cr. 2-4.
Credits: 3
- EDUC M449 - Methods of Teaching Science in the Secondary Schools Cr. 3.

and

- EDUC M401 - Laboratory/Field Experience Cr.0-3.

Block 3: Teaching Major

In addition to the above courses, you must complete one content area major. See list of majors and courses below.

Student Teaching

- EDUC M501 *Portfolio* Cr. 0
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
Credits: 3

Optional:

- EDUC M470 - Practicum Cr. 3-8.
(for Middle School Endorsement area)
Credits: 4

Electives (Variable)

Total Credits: 124

Core Content Area Majors

Below is a list of teaching content area majors.

Earth and Space Science Teaching Major (39–40 credits)

- AST A100 - The Solar System Cr. 3.
- CHM 115 - General Chemistry Cr. 4.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G210 - Oceanography Cr. 3.
- GEOL G211 - Introduction to Paleobiology Cr. 3.
- GEOL G221 - Introductory Mineralogy Cr. 3-4.
Credits: 3
- GEOL G222 - Introduction to Petrology Cr. 3.
- GEOL G334 - Principles of Sedimentology and Stratigraphy Cr. 3.
- GEOL G420 - Regional Geology Field Trip Cr. 1-2.
Credits: 2

One of the following: Credits 3-4

- GEOG G107 - Physical Systems of the Environment Cr. 3.
w/GEOL L100
- GEOL G100 - General Geology Cr. 3-5.
w/GEOL L100
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.

- GEOL L100 - General Geology Laboratory Cr. 1-2.

Two of the following: Credits: 6

- GEOG G315 - Environmental Conservation Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.
- GEOL G415 - Geomorphology Cr. 3-4.

French Teaching Major (49 credits)

- FREN F3xx-4xx - Literature Electives (300–400 level) Credits: 6
- FREN F3xx-4xx - Electives (300–400 level) Credits: 12
- FREN F111 - Elementary French I Cr. 4.
- FREN F112 - Elementary French II Cr. 4.
- FREN F203 - Second-Year French I Cr. 3.
- FREN F204 - Second-Year French II Cr. 3.
- FREN F213 - Second-Year French Composition Cr. 2.
- FREN F317 - French Language Skills I Cr. 3.
- FREN F318 - French Language Skills II Cr. 3.
- FREN F325 - Oral French for Teachers Cr. 3-8.
Credits: 3
- FREN W300 - Methods of Research and Criticism Cr. 3.

One of the following: Credits: 3

- FREN F463 - Civilisation Francaise I Cr. 3.
- FREN F464 - Civilisation Francaise II Cr. 3.

German Teaching Major (44 credits)

- GER 3XX - Literature Elective (300 level) Credits: 3
- GER G3xx - Elective (300 level) Credits: 3
- GER G4xx - Electives (400 level) Credits: 12
- GER G111 - Elementary German I Cr. 4.
- GER G112 - Elementary German II Cr. 4.
- GER G203 - Second-Year German I Cr. 3.
- GER G204 - Second-Year German II Cr. 3.
- GER G318 - German Language Skills I Cr. 3-5.
Credits: 3
- GER G325 - German for Teachers Cr. 3.
- GER W300 - Methods of Research and Criticism Cr. 3.

One of the following: Credits: 3

- GER G362 - Deutsche Landeskunde Cr. 3.
- GER G363 - Deutsche Kulturgeschichte Cr. 3.

Language Arts (English) Teaching Major (39 credits)

- ENG L391 - Literature for Young Adults Cr. 3.
- ENG W103 - Introductory Creative Writing Cr. 3.
- ENG W400 - Issues in Teaching Writing Cr. 3.

One of the following in writing: Credits: 3

- ENG L202 - Literary Interpretation Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Two of the following in language study Credits: 6

- ANTH L200 - Language and Culture Cr. 3.
- ENG G205 - Introduction to the English Language Cr. 3.
- ENG G206 - Introduction to the Study of Grammar Cr. 3.
- ENG G301 - History of the English Language Cr. 3.
- ENG G405 - Studies in English Language Cr. 3.
- LING L103 - Introduction to the Study of Language Cr. 3.
- LING L303 - Introduction to Linguistic Analysis Cr. 3.
- LING L360 - Language in Society Cr. 3.

One of the following in pre-1700 British literature: Credits: 3

- ENG L220 - Introduction to Shakespeare Cr. 3.
- ENG L301 - Critical and Historical Survey of English Literature I Cr. 3.
- ENG L304 - Old English Language and Literature Cr. 3.
- ENG L305 - Chaucer Cr. 3.
- ENG L306 - Middle English Literature Cr. 3.
- ENG L308 - Elizabethan Drama and Its Background Cr. 3.
- ENG L309 - Elizabethan Poetry Cr. 3.
- ENG L315 - Major Plays of Shakespeare Cr. 3.
- ENG L317 - English Poetry of the Early 17th Century Cr. 3.
- ENG L318 - Milton Cr. 3.

One of the following in post-1700 British literature: Credits: 3

- ENG L302 - Critical and Historical Survey of English Literature II Cr. 3.
- ENG L322 - English Literature, 1660-1789 Cr. 3.
- ENG L332 - Romantic Literature Cr. 3.
- ENG L335 - Victorian Literature Cr. 3.
- ENG L345 - 20th Century British Poetry Cr. 3.
- ENG L346 - 20th Century British Fiction Cr. 3.
- ENG L347 - British Fiction to 1800 Cr. 3.
- ENG L348 - 19th Century British Fiction Cr. 3.
- ENG L369 - Studies in British and American Authors Cr. 3.

One of the following in contemporary American literature: Credits: 3

- ENG L251 - American Literature Since 1865 Cr. 3.
- ENG L354 - American Literature Since 1914 Cr. 3.
- ENG L357 - 20th Century American Poetry Cr. 3.
- ENG L358 - 20th Century American Fiction Cr. 3.
- ENG L369 - Studies in British and American Authors Cr. 3.
- ENG L372 - Contemporary American Fiction Cr. 3.
- ENG L381 - Recent Writing Cr. 3.

One of the following in ethnic, minority, or non-Western: Credits: 3

- ENG L107 - Oriental World Masterpieces Cr. 3.
- ENG L364 - Native American Literature Cr. 3.
- ENG L369 - Studies in British and American Authors Cr. 3.
- ENG L379 - American Ethnic and Minority Literature Cr. 3.
- ENG L381 - Recent Writing Cr. 3.

One of the following in Western literature, other than British or American: Credits: 3

- CLAS C205 - Classical Mythology Cr. 3.
- CLAS C405 - Comparative Mythology Cr. 3-4.
Credits: 3
- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L362 - Modern Drama Cr. 3.

One of the following in mass communications, film, or journalism: Credits: 3

- COM 210 - Debating Public Issues Cr. 3.
- COM 250 - Mass Communication and Society Cr. 3.
- FILM K101 - Introduction to Film Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.

- JOUR J110 - Foundations of Journalism and Mass Communication Cr. 3.

One elective in English, linguistics, or mass communications (other than COM 114) Credits: 3

Social Studies Teaching Major (51–60 credits)

Must complete all course work in 3 content areas plus one course from each of the other two content areas (diversified credit) to complete the major.

Economics (15 credits)

- Economics elective Credits: 3
- Economics elective (300–400 level) Credits: 3
- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.

One of the following: Credits: 3

- ECON E321 - Intermediate Microeconomic Theory Cr. 3.
- ECON E322 - Intermediate Macroeconomic Theory Cr. 3.

Government and Citizenship (15 credits)

- Political science electives (300–400 level) Credits: 6
- POLS Y103 - Introduction to American Politics Cr. 3.

Two of the following: Credits: 6

- POLS Y105 - Introduction to Political Theory Cr. 3.
- POLS Y107 - Introduction to Comparative Politics Cr. 3.
- POLS Y109 - Introduction to International Relations Cr. 3.

Historical Perspectives (24 credits)

American Civilization

- HIST elective (American) Credits: 3

- HIST elective (American) (300–400 level) Credits: 3
- HIST H105 - American History I Cr. 3.
- HIST H106 - American History II Cr. 3.

World Civilization

- HIST elective (non-American) Credits: 3
- HIST elective (non-American) (300-400 level) Credits: 3
- HIST H113 - History of Western Civilization I Cr. 3.
- HIST H114 - History of Western Civilization II Cr. 3.

Psychology (15 credits)

- PSY 120 - Elementary Psychology Cr. 3.

One of the following: Credits 3

- PSY 235 - Child Psychology Cr. 3.
- PSY 240 - Introduction to Social Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.

One of the following: Credits 3

- PSY 314 - Introduction to Learning Cr. 3.
- PSY 329 - Psychobiology II: Principles of Psychobiological Psychology Cr. 3.
- PSY 416 - Cognitive Psychology Cr. 3.

One PSY Elective Credits: 3

- PSY 350 - Abnormal Psychology Cr. 3.
- PSY 420 - Introduction to Personality Theory Cr. 3.

Sociology (15 credits)

- SOC S161 - Principles of Sociology Cr. 3.

One of the following: Credits 3

- SOC S230 - Society and the Individual Cr. 3.
- SOC S318 - Social Change Cr. 3.

Each of the following Credits: 9

- SOC elective Credits: 3
- SOC electives (300–400 level) Credits: 6

Diversified Credits: 6

Spanish Teaching Major (52 credits)

- SPAN S4XX Elective (400 level) Credits: 3
- SPAN S111 - Elementary Spanish I Cr. 4.
- SPAN S112 - Elementary Spanish II Cr. 4.
- SPAN S203 - Second-Year Spanish I Cr. 3.
- SPAN S204 - Second-Year Spanish II Cr. 3.
- SPAN S210 - Second-Year Spanish Composition Cr. 2-3.
Credits: 2
- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.
- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.
- SPAN S317 - Spanish Conversation and Diction Cr. 3.
- SPAN S488 - Spanish for Teachers Cr. 3.
- SPAN W300 - Methods of Research and Criticism Cr. 3.

One of the following: Credits: 3

- SPAN S407 - Survey of Spanish Literature I Cr. 3.
- SPAN S408 - Survey of Spanish Literature II Cr. 3.

One of the following: Credits: 3

- SPAN S425 - Spanish Phonetics Cr. 3.
- SPAN S426 - Introduction to Spanish Linguistics Cr. 3.
- SPAN S428 - Applied Spanish Linguistics Cr. 3.

One of the following: Credits: 3

- SPAN S471 - Spanish-American Literature I Cr. 3.
- SPAN S472 - Spanish-American Literature II Cr. 3.

One of the following: Credits: 3

- SPAN S411 - Spain: The Cultural Context Cr. 3.
- SPAN S412 - Latin-American Culture and Civilization Cr. 3.

Notes

Students completing the adolescence/young adulthood concentration may also add additional middle school/junior high teaching areas by completing any of the early adolescence content area minors and completing a middle school practicum.

Other IPFW departments offer degrees that lead to teacher certification. They include art education, biology, chemistry, mathematics, music education, and physics. Please refer to these departments in their appropriate Part 4 sections of this Bulletin for more information and course requirements.

Secondary Education-Early Adolescence Concentration (B.S.Ed.)

Program: B.S.Ed.

Department of Educational Studies

School of Education

Neff Hall 250 ~ 260-481-6441

The B.S.Ed. in secondary education is intended to prepare students for successful careers as teachers of children in middle school/junior high and high school settings. The secondary education degree is divided into two concentrations: early adolescence, for middle school/junior high settings, and adolescence/young adulthood, for high school settings. Pre-service teachers must choose one or both concentrations to complete the degree. Upon satisfactory completion of the program, and the other requirements listed under Teacher Licensure in the Special Academic Regulations, you are eligible to apply for an Indiana teaching license.

To earn the B.S.Ed. in secondary education, you must satisfy the requirements of IPFW (see part 7) and the School of Education.

School Setting: Middle School/Junior High

General Education Credits: 45

School of Education Credits: 34

Content Area Minors (must select 2) Credits: 48

Some content area minor credits will overlap with general education credits.

- Language Arts Credits: 24
- Mathematics Credits: 24
- Science Credits: 24
- Social Studies Credits: 24

Elective credits variable, but must be at least 124.

IPFW General Education Requirements Credits: 45

Area I—Linguistic and Numerical Foundations Credits: 12

- COM 114 - Fundamentals of Speech Communication Cr. 3.
(a grade of B or better is required)
- ENG W131 - Elementary Composition I Cr. 3.
(a grade of B or better is required)
- ENG W233 - Intermediate Expository Writing Cr. 3.

Any college-level math including: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 9

See Part 2 General Education Requirements for approved courses

- Biology Credits: 3
- Two of the following: Credits: 6
- ANTH B200 - Bioanthropology Cr. 3.
astronomy, chemistry, geology, or physics

Area III—The Individual, Culture, and Society Credits: 9

See Part 2 General Education Requirements for approved courses

One of the following: Credits: 3

- American history or world history or humanities (FWAS H201 or H202)

One of the following: Credits: 3

- political science or sociology

One of the following: Credits: 3

- anthropology, business, economics, folklore, journalism, linguistics, psychology, or public and environmental affairs

Area IV—Humanistic Thought Credits: 9

See Part 2 General Education Requirements for approved courses

- English literature Credits: 3

One of the following: Credits: 3

- INTR 220 - Architecture and Urban Form Cr. 3.
or fine arts or music

One of the following: Credits: 3

- film or philosophy or theatre

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Education Requirements

Initial Requirements:

- PPST (Pre-Professional Skills Test)
- EDUA F300 - Invitation to teaching Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
(a grade of B or better is required)
Credits: 0
- EDUC W200 - Using Computers for Education Cr. 1.
(a grade of B or better is required)

Block 1: Teacher Education

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3

Block 2: Professional Education

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC M401 - Laboratory/Field Experience Cr.0-3.
Credits: 0
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.
Credits: 3
- EDUC S405 - The Middle and Junior High School Cr. 3.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

Block 3: Core Content Area Minors

In addition to the above courses, you must complete 24 credit hours in two of four core content area minors (See course requirements for core content area minors listed below)

Student Teaching

- EDUC M501 - Portfolio Credits: 0
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
Credits: 12

Optional:

- EDUC M470 - Practicum Cr. 3-8.
(for an additional concentration area)
Credits: 4

Electives (Variable)

Total Credits: 124

Core Content Area Minors (24 credits)

In addition to the above courses, you must complete 24 credit hours in two of four core content area minors.

Language Arts (24 credits)

- British literature elective (300 level or higher) Credits: 3
- American literature elective (300 level or higher) Credits: 3

One of the following: Credits: 3

- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.

One of the following: Credits: 3

- ENG L202 - Literary Interpretation Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

One of the following: Credits: 3

- ENG G205 - Introduction to the English Language Cr. 3.
- ENG G206 - Introduction to the Study of Grammar Cr. 3.
- ENG L103 - Introduction to Drama Cr. 3.

One of the following: Credits: 3

- COM 250 - Mass Communication and Society Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.

One of the following: Credits: 3

- ENG L390 - Children's Literature Cr. 3.
- ENG L391 - Literature for Young Adults Cr. 3.

One of the following: Credits: 3

- EDUC E340 - Methods of Teaching Reading I Cr. 2-3.
Credits: 3
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

Mathematics (24 credits)

- Computer science elective Credits: 3
- Mathematics, computer science, or statistics electives Credits: 2–3
- MA 101 - Mathematics for Elementary Teachers I Cr. 3.
- MA 102 - Mathematics for Elementary Teachers II Cr. 3.
- MA 103 - Mathematics for Elementary Teachers III Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
(or waiver)
- STAT 125 - Communicating with Statistics Cr. 3.
(or higher)

One of the following: Credits: 3-4

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

Science (24 credits)

- Science electives Credits: 0-2
- AST A100 - The Solar System Cr. 3.
- BIOL 100 - Introduction to the Biological World Cr. 3.
and
- BIOL 100L - Introduction to the Biological World Laboratory Cr. 1.
- CHM 111 - General Chemistry Cr. 3.
- GEOL G100 - General Geology Cr. 3-5.

One of the following: Credits: 3

- BIOL 349 - Environmental Science Cr. 3.
- GEOG G315 - Environmental Conservation Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.

One of the following: Credits: 3-5

- PHYS 131 - Concepts in Physics I Cr. 3.
- PHYS 152 - Mechanics Cr. 5.

One of the following: Credits: 3

- EDUC Q200 - Introduction to Scientific Inquiry Cr. 1-3.
Credits: 3
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.

Social Studies (24 credits)

- American History Credits: 3
- Sociology Credits: 3
- Political Science Credits: 3
- Social Studies electives Credits: 6
- PSY 120 - Elementary Psychology Cr. 3.

One of the following: Credits: 3

- ECON E200 - Fundamentals of Economics Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.

One of the following: Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.
- HIST H232 - The World in the 20th Century Cr. 3.

Sociology (B.A.)

Program: B.A.

Department of Sociology and Anthropology

School of Arts and Sciences

Classroom-Medical Building 241 ~ 260-481-6842 ~ www.ipfw.edu/soca/soc.htm

Courses in sociology provide an understanding of society and of the relationship between the individual and society. Studies in sociology help to prepare you for graduate school and careers in the social services, law, human relations, criminal justice, government, education, and mass media. In order to effectively plan a course of study that will best meet your educational and career objectives, you will be assigned to an advisor as soon as you declare a major in sociology.

Although a minor is not required, study in an outside area is recommended. Anthropology, computer science, economics, history, labor studies, political science, psychology, organizational leadership and supervision, and women's studies support the major well.

To earn a B.A. with a major in sociology, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and satisfactorily complete the following courses.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- Additional credits in Area III Credits: 3
- SOC S161 - Principles of Sociology Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in SOC) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- SOC S260 - Analysis of Social Issues Cr. 3.
(credits included in Major Courses, below)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in SOC)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- SOC S161 - Principles of Sociology Cr. 3.
- SOC S260 - Analysis of Social Issues Cr. 3.
- SOC S340 - Social Theory Cr. 3.
- SOC S351 - Social Statistics Cr. 3.
- SOC S352 - Methods of Social Research Cr. 3.
- SOC S494 - Field Experience in Sociology Cr. 1-6.

Sociology Elective Courses Credits: 15

All additional sociology elective courses must be at the 200 level or above; 9 of the 15 credit hours must be at the 300 level or above.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Spanish (B.A.)

Program: B.A.

Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

To earn the B.A. with a major in Spanish, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) and satisfactorily complete the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- LING L103 - Introduction to the Study of Language Cr. 3.

One of the following: Credits: 3

- HIST H232 - The World in the 20th Century Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in SPAN) Credits: 3

Recommended:

- ANTH E335 - Ancient Civilizations of Mesoamerica Cr. 3.
- ANTH P370 - Ancient Cultures of South America Cr. 3.
- LING L360 - Language in Society Cr. 3.
- WOST W301 - International Perspectives on Women Cr. 3.

School of Arts and Sciences Requirements

English Writing Credits: 0

- (requirement is satisfied by SPAN W300, listed below)

Foreign Language (10–14 credits)

- SPAN S203 - Second-Year Spanish I Cr. 3.
- SPAN S204 - Second-Year Spanish II Cr. 3.

One of the following: Credits: 4-8

- SPAN S111 - Elementary Spanish I Cr. 4.
- SPAN S112 - Elementary Spanish II Cr. 4.
- SPAN S113 - First-year Spanish in One Semester Cr. 4.

Distribution (not in SPAN)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Credits in Western tradition Credits: 3
- Non-Western culture requirement may be satisfied with one of the following courses Credits: 0
- SPAN S412 - Latin-American Culture and Civilization Cr. 3.
- SPAN S471 - Spanish-American Literature I Cr. 3.
- SPAN S472 - Spanish-American Literature II Cr. 3.
- SPAN S479 - Mexican Literature Cr. 3.
- SPAN S480 - Argentine Literature Cr. 3.

Core and Concentration (Major) Courses

- SPAN S275 - *Hispanic Culture and Conversation* Credits: 3
- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.
- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.
- SPAN S317 - Spanish Conversation and Diction Cr. 3.
- SPAN W300 - Methods of Research and Criticism Cr. 3.
(taught in fall semester: should be taken concurrently with S301 or S302)

One of the following courses in Spanish linguistics: Credits: 3

- SPAN S425 - Spanish Phonetics Cr. 3.
- SPAN S426 - Introduction to Spanish Linguistics Cr. 3.
- SPAN S428 - Applied Spanish Linguistics Cr. 3.

One of the following courses in Spanish literature: Credits: 3

- SPAN S407 - Survey of Spanish Literature I Cr. 3.
- SPAN S408 - Survey of Spanish Literature II Cr. 3.

One of the following courses in Spanish-American literature: Credits: 3

- SPAN S471 - Spanish-American Literature I Cr. 3.
- SPAN S472 - Spanish-American Literature II Cr. 3.

Additional credits in 400-level Spanish civilization, language, or literature courses
Credits: 6

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Spanish with Teacher Certification (B.A.)

Program: B.A. with Teacher Certification

Department of International Language and Culture Studies

School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

Students pursuing a B.A. with a major in Spanish with teacher certification must fulfill the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and the School of Education (see Part 3) and satisfactorily complete the following requirements.

Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The National Teachers Examination (NTE) Specialty Area Tests must be completed before or during the student-teaching semester, normally in your senior year.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

- LING L103 - Introduction to the Study of Language Cr. 3.

One of the following: Credits: 3

- HIST H232 - The World in the 20th Century Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in SPAN) Credits: 3

Recommended:

- ANTH E335 - Ancient Civilizations of Mesoamerica Cr. 3.
- ANTH P370 - Ancient Cultures of South America Cr. 3.
- LING L360 - Language in Society Cr. 3.
- WOST W301 - International Perspectives on Women Cr. 3.

School of Arts and Sciences Requirements

English Writing Credits: 0

(requirement is satisfied by SPAN W300, listed below)

Foreign Language (10–14 credits)

- SPAN S203 - Second-Year Spanish I Cr. 3.
- SPAN S204 - Second-Year Spanish II Cr. 3.

One of the following: Credits: 4-8

- SPAN S111 - Elementary Spanish I Cr. 4.
- SPAN S112 - Elementary Spanish II Cr. 4.
- SPAN S113 - First-year Spanish in One Semester Cr. 4.

Distribution (not in SPAN)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Credits in Western tradition Credits: 3
- Non-Western culture requirement may be satisfied with the following courses Credits: 0
- SPAN S412 - Latin-American Culture and Civilization Cr. 3.
- SPAN S471 - Spanish-American Literature I Cr. 3.
- SPAN S472 - Spanish-American Literature II Cr. 3.
- SPAN S479 - Mexican Literature Cr. 3.
- SPAN S480 - Argentine Literature Cr. 3.

Core and Concentration (Major) Courses

- SPAN S275 - *Hispanic Culture and Conversation* Credits: 3
- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.
- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.
- SPAN S317 - Spanish Conversation and Diction Cr. 3.
- SPAN S488 - Spanish for Teachers Cr. 3.
- SPAN W300 - Methods of Research and Criticism Cr. 3.
(taught in fall semester: should be taken concurrently with S301 or S302)

One of the following courses in Spanish linguistics: Credits: 3

- SPAN S425 - Spanish Phonetics Cr. 3.
- SPAN S426 - Introduction to Spanish Linguistics Cr. 3.
- SPAN S428 - Applied Spanish Linguistics Cr. 3.

One of the following courses in Spanish literature: Credits: 3

- SPAN S407 - Survey of Spanish Literature I Cr. 3.
- SPAN S408 - Survey of Spanish Literature II Cr. 3.

One of the following courses in Spanish-American literature: Credits: 3

- SPAN S471 - Spanish-American Literature I Cr. 3.
- SPAN S472 - Spanish-American Literature II Cr. 3.

One of the following culture/civilization courses: Credits: 3

- SPAN S413 *Hispanic Culture in the U.S.*
- SPAN S411 - Spain: The Cultural Context Cr. 3.
- SPAN S412 - Latin-American Culture and Civilization Cr. 3.

Additional credits in 400-level Spanish civilization, language, or literature courses
Credits: 3

Professional Education

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUC F300 - *Invitation to Teaching* Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC W200 - Using Computers for Education Cr. 1.
Credits: 1

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC M445 - Methods of Teaching Foreign Languages Cr. 3.

- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
Credits: 10
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.
Credits: 3
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

Middle School Certification (Recommended)

- EDUC M470 - Practicum Cr. 3-8.
Credits: 4

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Speech and Hearing Therapy (B.S.)

Program: B.S.

Audiology and Speech Sciences

School of Arts and Sciences

Neff Hall 279 ~ 260-481-6410 ~ www.ipfw.edu/aus

This preprofessional degree helps you prepare to pursue the master's degree in speech-language pathology or audiology and the following professional credentials: the Indiana Schools Standard Services-Specialist License, the license from the Indiana Speech-Language Pathology and Audiology Board, and the Certificate of Clinical Competence from the American Speech-Language-Hearing Association. With full academic preparation, including a master's degree in speech-language pathology or audiology, you may begin human-service careers working with children, adults, and/or older persons who have speech, language, or hearing disorders. You will offer professional assistance to enhance our most distinctive human ability — communication.

The curriculum offers courses and practical experiences that prepare you to work with communicatively disabled individuals in such settings as schools, hospitals, agencies, rehabilitation centers, clinics, and private practices. Beginning practicum courses prepare the student to work with clients. These practicum courses offer services through the speech-language clinic to the campus and surrounding community.

To earn the B.S. with a major in speech and hearing therapy, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) in addition to the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following:

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following:

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
required

Area III—The Individual, Culture, and Society Credits: 6

- LING L103 - Introduction to the Study of Language Cr. 3.
required; select one course from
- PSY 120 - Elementary Psychology Cr. 3.
or
- SOC S161 - Principles of Sociology Cr. 3.
or
- SOC S163 - Social Problems Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

- PHIL 111 - Ethics Cr. 3.
or
- PHIL 120 - Critical Thinking Cr. 3.
recommended

Area V—Creative and Artistic Expression Credits: 3

Select one:

- ENG W103 - Introductory Creative Writing Cr. 3.
- JOUR J210 - Visual Communication Cr. 3.
- MUS L153 - Introduction to Music Therapy Cr. 3.
recommended

Area VI—Inquiry and Analysis (not in AUS) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing Credits: 3

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language Credits: 8

- *Foreign Language (111 and 112)*

Core and Concentration (Major) Courses

- AUS 115 - Introduction to Communicative Disorders Cr. 3.
- AUS 302 - Acoustic Bases of Speech and Hearing Cr. 3.
- AUS 304 - Anatomy and Physiology of the Speech and Hearing Mechanism Cr. 4.
- AUS 306 - Introduction to Phonetics Cr. 3.
- AUS 309 - Language Development Cr. 3.
- AUS 420 - Introduction to Developmental Speech and Language Disorders Cr. 3.
- AUS 460 - Introduction to Assessment Audiology Cr. 4.
- AUS 516 - Foundations of Assessment in Communication Disorders Cr. 3.
- AUS 521 - Phonetic and Phonological Disorders in Children Cr. 2.

Credits from the following courses:

Students intending to pursue graduate studies are urged to select AUS 449 and should also consider completion of AUS 549. If 549 is not selected, then 590 should be the selection.

- AUS 181 - First Course in American Sign Language Cr. 3.

- AUS 182 - Second Course in American Sign Language Cr. 3.
- AUS 399 - Directed Study in Audiology and Speech Sciences Cr. 1-3.
- AUS 405 - Augmentative and Computer Applications in Speech and Language Cr. 3
- AUS 430 - Speech-Language Disorders in Healthcare Settings Cr. 3
- AUS 449 - Introduction to Clinical Practice in Speech-Language Pathology Cr. 2-3.
- AUS 549 - Clinical Practice in Speech/ Language Pathology I Cr. 1-8.
- AUS 550 - Aural Rehabilitation for Adults Cr. 4.
- AUS 551 - Aural Rehabilitation for Children Cr. 3.
- AUS 590 - Directed Study of Special Problems Cr. 1-6.

General Elective Courses

You may wish to consider elective courses that fulfill requirements for a minor that supports preparation of AUS majors. Sufficient additional credits to bring the total to 124. Recommended:

- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- COM 303 - Intercultural Communication Cr. 3.
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- PHIL 312 - Medical Ethics Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.
- PSY 235 - Child Psychology Cr. 3.
- PSY 350 - Abnormal Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.
- SOC S163 - Social Problems Cr. 3.

Total Credits: 124

Theatre (B.A.)

Program: B.A.

Department of Theatre

School of Visual and Performing Arts

Williams Theatre 128 ~ 260-481-6551 ~ www.ipfw.edu/vpa

To earn the B.A. with a major in theatre, you must satisfy the requirements of IPFW (see Part 7) and the School of Visual and Performing Arts (see Part 3), complete the following courses, earn a grade of C or better in each theatre course, and fulfill additional requirements specified in the theatre student handbook:

IPFW General Education Requirements (36 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

- Reading/Writing Credits: 3
- Quantitative Reasoning Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

May not use THTR-prefixed course to fulfill requirement

- HIST H113 - History of Western Civilization I Cr. 3.
- HIST H114 - History of Western Civilization II Cr. 3.

Area IV—Humanistic Thought Credits: 6

Must include one of the following:

May not use THTR-prefixed course to fulfill requirement.

- FINA H101 - Art Appreciation Cr. 3.
- MUS Z101 - Music for the Listener Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

May not use THTR-prefixed course to fulfill requirement.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Writing Requirements

- ENG W233 - Intermediate Expository Writing Cr. 3.

Theatre Core Courses (52 credits)

- THTR 138 - Acting I Cr. 3.
- THTR 158 - Stagecraft Cr. 3.
- THTR 168 - Theatre Production I Cr. 1-2.
Must take 6 semesters of this course, 6 credits total.
- THTR 201 - Theatre Appreciation Cr. 3.
- THTR 213 - Voice for the Actor Cr. 2.
- THTR 256 - Stage Makeup Cr. 2.
- THTR 261 - Introduction to Theatrical Design Cr. 3.
- THTR 284 - Textual Analysis Cr. 3.
- THTR 351 - Costume Techniques I Cr. 3.
- THTR 440 - Beginning Directing Cr. 3.
- THTR 470 - Theatre and Society I Cr. 3.
- THTR 471 - Theatre and Society II Cr. 3.
- THTR 499 - Senior Performance Project Cr. 2.
- THTR 501 - Stage Management Cr. 3.

One of the following: Credits: 3

- THTR 355 - American Musical Theatre Cr. 3.
- THTR 583 - American Theatre History and Drama Cr. 3.

One of the following: Credits: 3

- THTR 360 - Scenic Design Cr. 3.
- THTR 361 - Costume Design Cr. 3.
- THTR 362 - Light Design Cr. 3.

Credits in dramatic literature Credits: 3

Choose from among the following:

- ENG L220 - Introduction to Shakespeare Cr. 3.
- ENG L315 - Major Plays of Shakespeare Cr. 3.
- ENG L362 - Modern Drama Cr. 3.
or any dramatic-literature course

Emphasis Area Credits: 15-18

Credits from emphasis area below

Elective Courses Credits: 18-22

- Sufficient elective credits to bring total to 124.

Total Credits: 124

Emphasis Areas

Acting (17 credits)

- THTR 238 - Acting II Cr. 3.
- THTR 323 - Acting: Movement for the Actor Cr. 2.
- THTR 338 - Acting III Cr. 3.
- THTR 413 - Advanced Voice for the Stage Cr. 3.
- THTR 438 - Acting IV Cr. 3.
- THTR 536 - Advanced Problems in Acting Cr. 1-3.

Design and Technology (18 credits)

- THTR 264 - Rendering Techniques Cr. 3.
- THTR 365 - Period Style for the Theatre I Cr. 3.
- THTR 366 - Period Style for the Theatre II Cr. 3.

Two of the following: Credits: 6

- THTR 360 - Scenic Design Cr. 3.
- THTR 361 - Costume Design Cr. 3.
- THTR 362 - Light Design Cr. 3.

One of the following: Credits: 3

- THTR 560 - Advanced Scenic Design Cr. 3.
- THTR 561 - Advanced Costume Design Cr. 3.
- THTR 562 - Advanced Light Design Cr. 3.

Directing (17 credits)

- THTR 323 - Acting: Movement for the Actor Cr. 2.
- THTR 362 - Light Design Cr. 3.
- THTR 365 - Period Style for the Theatre I Cr. 3.

- THTR 366 - Period Style for the Theatre II Cr. 3.
- THTR 540 - Advanced Directing Cr. 3.
- THTR 542 - Advanced Problems in Theatre Directing Cr. 3.

Playwriting (15 credits)

- ENG W103 - Introductory Creative Writing Cr. 3.
- THTR 376 - Introduction to Playwriting Cr. 3.
- THTR 576 - Playwriting Cr. 3.

Writing elective Credits: 3

Selected from

- ENG W203 - Creative Writing Cr. 3.
- ENG W310 - Language and the Study of Writing Cr. 3.

Choose one of the following:

- COM 436 - Script Writing Cr. 3.
- THTR 576 - Playwriting Cr. 3.
[repeated]

Dramatic literature elective Credits: 3

(Selected from ENG L sequence courses or THTR electives with significant dramatic literature content.)

Individualized Emphasis (15–18 credits)

- Choose 15 credits with advisor; must be approved by faculty.

Theatre Teaching (B.A.)

Program: B.A.

Department of Theatre

School of Visual and Performing Arts

Williams Theatre 128 ~ 260-481-6551 ~ www.ipfw.edu/vpa

To earn a B.A. with a major in theatre teaching, you must satisfy the requirements of IPFW (see Part 7) and the School of Visual and Performing Arts (see Part 3), complete the following courses, and earn a grade of C or better in required theatre courses:

IPFW General Education Requirements (36 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

- Reading/Writing Credits: 3
- Quantitative Reasoning Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

May not use THTR-prefixed course to fulfill requirement.

- HIST H113 - History of Western Civilization I Cr. 3.
- HIST H114 - History of Western Civilization II Cr. 3.

Area IV—Humanistic Thought

One of the following: Credits: 3

May not use THTR-prefixed course to fulfill requirement.

- FINA H101 - Art Appreciation Cr. 3.
- MUS Z101 - Music for the Listener Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

May not use THTR-prefixed course to fulfill requirement.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Writing Requirements

- ENG W233 - Intermediate Expository Writing Cr. 3.

Theatre Core Courses (40 credits)

- Additional theatre courses Credits: 6
- THTR 134 - Fundamentals of Performance Cr. 3.
- THTR 136 - Rehearsal and Performance I Cr. 1-2.
- THTR 138 - Acting I Cr. 3.
- THTR 158 - Stagecraft Cr. 3.
- THTR 168 - Theatre Production I Cr. 1-2.
- THTR 213 - Voice for the Actor Cr. 2.
- THTR 238 - Acting II Cr. 3.
- THTR 261 - Introduction to Theatrical Design Cr. 3.
- THTR 284 - Textual Analysis Cr. 3.
- THTR 440 - Beginning Directing Cr. 3.
- THTR 470 - Theatre and Society I Cr. 3.
- THTR 471 - Theatre and Society II Cr. 3.

One of the following:

- THTR 360 - Scenic Design Cr. 3.
- THTR 361 - Costume Design Cr. 3.
- THTR 362 - Light Design Cr. 3.

Professional Education (32 credits)

Group I

- EDUC F300 - *Invitation to Teaching* Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
PPST (Pre-Professional Skills Test)
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
- EDUC W200 - Using Computers for Education Cr. 1.

Group II

- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
- EDUC P250 - General Educational Psychology Cr. 1-4.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.

One of the following: Credits: 3

- EDUC M447 - Methods of Teaching High School English Cr. 3.
- EDUC M478 - Methods of Teaching High School Speech Cr. 2-4.

Electives Credits: 24

Credits in electives (see note, below)

Total Credits: 128

Teacher Certification Concentration

The following teacher-certification concentration in English is highly recommended in partial fulfillment of the degree requirements. Specific courses should be selected in consultation with your advisor or an advisor in the Department of English and Linguistics. Courses used to fulfill IPFW general education requirements cannot be used.

- Credits in two additional courses in literature, 200 level or higher Credits: 6
- Credits in one additional course in language study Credits: 3
- Credits in one course in writing (students should complete one course in expository writing or composition theory and one course in creative writing) Credits: 3
- Credits in one course in ethnic, minority, or non-Western literature Credits: 3
- Credits in one course in Western literature other than British or American Credits: 3
- Credits in one course in mass communication, including journalism and film Credits: 3

Total Credits: 21

Women's Studies (B.A.)

Program: B.A.

School of Arts and Sciences

Classroom-Medical Building 272 ~ 260-481-6711

Women's studies is based on the premise that the study of women's experiences, concerns, social roles, and creativity is essential to our knowledge of humankind and society. Feminist scholarship and theory provide the knowledge and analytical tools necessary for a gender-balanced perspective on our world, both past and present. The Women's Studies Program affords you the opportunity to pursue feminist scholarship on women and gender through a variety of interdisciplinary courses.

In addition to the B.A. program, an Associate of Arts with a concentration in women's studies is available at IPFW. See School of Arts and Sciences in Part 3 for further information.

To earn the Bachelor of Arts with a major in women's studies, you must satisfy the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and complete the following courses. Only women's studies courses in which you have earned a grade of C or better can be applied to the degree or used to satisfy prerequisites.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in WOST) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in WOST or cross-listed courses)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Additional credits in Western tradition Credits: 3
- WOST W301 - International Perspectives on Women Cr. 3.
(credits included in Major Requirements, below)

Core and Concentration (Major) Courses

- Credits in WOST or cross-listed humanities/visual arts Credits: 6
- Credits in WOST or cross-listed social science/science Credits: 6
- Additional credits in WOST or cross-listed courses Credits: 9
- WOST W210 - Introduction to Women's Studies Cr. 3.
- WOST W301 - International Perspectives on Women Cr. 3.
- WOST W400 - Topics in Women's Studies Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Notes

A thematic focus of at least three courses (9 of the 30 credits in Major Requirements) must be selected in consultation with your women's studies advisor. The thematic focus provides coherence within this interdisciplinary major and can be defined in several

ways: geographically (e.g., women in America, women in Western Europe); chronologically (e.g., women in antiquity, women of the Renaissance); by a category or issue (e.g., women and peace, women of color), and so on.

If you major in women's studies, you are also required to have a second major or one or more minors in other arts and sciences disciplines. If you elect to double-major in women's studies and another arts and sciences discipline, women's studies may be either your first or second major.

You may count the courses taken to fulfill this major toward arts and sciences distribution requirements wherever possible. However, no more than two courses may be applied to both majors.

If you elect to combine a women's studies major with one or more minors in other arts and sciences disciplines, you may count only two courses toward both the women's studies major and School of Arts and Sciences distribution requirements. Only one course may be counted toward both the women's studies major and any other minor.

Certificate

Accounting Post-Baccalaureate Certificate

Neff Hall 366 - 260-481-6472

Note: The Post-Baccalaureate Certificate in Accounting (P.B.A.) is offered by the Department of Accounting and Finance. Typically, students who pursue the P.B.A. are seeking an academic program of recognized quality that will help them prepare for careers in accounting. In combination with a bachelor's degree earned at an appropriately accredited institution, the P.B.A. meets the current minimum accounting educational requirements to sit for the Uniform Certified Public Accounting Examination in Indiana if students select the correct electives. Additional nonaccounting business credits may be required.

Admission Admission to the P.B.A. program is limited to holders of bachelor's degrees awarded by institutions that were accredited at the baccalaureate level by the North Central Association of Colleges and Schools (or comparable regional association) at the time the degree was granted.

To enroll in the program, you must first be formally admitted to IPFW. You must provide the IPFW admissions office with official transcripts documenting completion of your bachelor's degree.

Certificate Requirements Individuals interested in the P.B.A. program should check with either the department (Neff 350) or the school's Student Affairs Center (Neff 366) for specific program requirements and further information.

Special Academic Regulations for P.B.A. Students

Performance Standards With the exception of the minimum GPA for retention, P.B.A. students are held to the performance standards specified for students in undergraduate business programs. See Business later in this part of the Bulletin.

Course Waivers You may be eligible for waivers of course requirements based upon academic courses taken as part of your bachelor's program if those courses were completed within the past five calendar years.

Advanced Microprocessors Certificate

Program: Certificate

Department of Electrical and Computer Engineering Technology College of Engineering Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

The certificate program in advanced microprocessors provides the theoretical and practical knowledge necessary to enable you to use microprocessors in industrial applications. Some highlights of the course sequence include introduction to and use of Visual Basic in electronic simulations and calculations; theoretical and laboratory applications of digital logic circuits, operational amplifiers, D/A and A/D converters, computer memory circuits; microprocessor assembly language programming; EEPROM and EPROM programming; microprocessors and microcontrollers; experimental applications; and applied, practical projects. Special emphasis is placed on embedded systems using microcontrollers.

Upon satisfactory completion of the program, you will understand the operation of microprocessors; be able to design and construct a microprocessor-based circuit; be able to program a microprocessor in assembly language, Visual Basic, or C; and be able to use your designed circuit to control or monitor the operation of an industrial process.

The ECET department also offers the Bachelor of Science and Associate of Science with a major in electrical engineering technology, and a Bachelor of Science with a major in computer engineering technology (CPET). In addition to the degrees, the department offers a minor in electronics and certificate programs in computer-controlled systems, electronic communications, power electronics systems, and computer networking.

To earn the certificate in advanced microprocessors, you must satisfy the requirements of IPFW (see Part 7), fulfill all course prerequisites, and satisfactorily complete the following courses. This certificate is not available to any student with a major in EET (A.S. and/or B.S.) or CPET (B.S.).

Program Requirements

- ECET 111 - Digital Circuits Cr. 4.
- ECET 205 - Introduction to Microprocessors Cr. 4.
- ECET 264 - C Programming Language Applications Cr. 3.
- ECET 305 - Advanced Microprocessors Cr. 4.

One of the following:

- CS 114 - Introduction to Visual Basic Cr. 3.
- ECET 114 - Introduction to Microcomputers Cr. 3.

Total Credits: 18

American Studies Certificate

Program: Certificate in American Studies

School of Arts and Sciences

Classroom-Medical Building 153 ~ 260-481-6160

Available to students pursuing majors in English or history, this program encourages a broad, interdisciplinary understanding of American history, culture, and society and can be appropriate preparation for graduate specialization in literature, history, American studies, and law.

To earn the certificate, you must (1) complete all courses for the B.A. with courses emphasizing American history or American literature, and (2) complete the following 30 credits with a grade of C or higher in each course:

Program Requirements

- Credits in American offerings in the social sciences Credits: 9
- Credits outside your major in American history or American literature Credits: 15
- AMST A301 - The Question of American Identity Cr. 3.
- AMST A440 - Senior Seminar in American Studies Cr. 3.

Total Credits: 30

Biology Research Certificate

Program: Research Certificate

Department of Biology

School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

Research Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

History, Philosophy, or Theory of the Discipline

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.

- BIOL 219 - Principles of Functional Biology Cr. 3.

Cognate Research Tools

- STAT 340 - Elementary Statistical Methods II Cr. 3.

Research Methods and Supervised Individual Research Credits: 6

The BIOL 295/595 must contain the prefix RES: in its title to signify laboratory or fieldwork involving the design of an original project and collection and analysis of data.

- BIOL 295 - Special Assignments Cr. 1-3 and/or
- BIOL 595 - Special Assignments Cr. 1-4.

Total Credits: 30

Computer Networking Certificate

Program: Certificate

Department of Electrical and Computer Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

This certificate program in computer networking provides the theoretical and practical knowledge necessary to enable you to work with computer operating systems, data communication and network equipment, networking protocols, network system administration, local area networks, wide area networks, and network security.

The ECET department also offers the Bachelor of Science and Associate of Science with a major in electrical engineering technology and a Bachelor of Science with a major in computer engineering technology. In addition to the degrees, the department offers a minor in electronics and certificate programs in advanced processors, computer-controlled systems, electronics communications, and power electronics systems.

To earn the certificate in computer networking, you must fulfill all course prerequisites, and successfully complete the following courses with a grade of C or better in each course. This certificate is not available to any student with a major in CPET (B.S.).

Program Requirements

- CPET 181 - Computer Operating Systems Basics Cr. 3.
- CPET 281 - Local Area Networks and Management Cr. 3.
- CPET 364 - Networking Security Cr. 3.

One of the following Credits: 3

- CS 170 - C and Data Structures Cr. 3.
- ECET 264 - C Programming Language Applications Cr. 3.

One of the following Credits: 4

- CPET 355 - Data Communications and Networking Cr. 4.
- CS 274 - Data Communications Cr. 3.
(plus one-hour lab)
- ECET 355 - Data Communications and Networking Cr. 4.

One of the following Credits: 3

- CPET 384 - Wide Area Network Design Cr. 3.
- CPET 493 - Wireless Networking Cr. 3
- CPET 495 - Web Engineering and Design Cr. 4.
- CPET 499 - Computer Engineering Technology Cr. 1-4.
- CS 374 - Computer Networks Cr. 3.

Total Credits: 19

Computer-Controlled Systems Certificate

Program: Certificate

Department of Electrical and Computer Engineering

Technology

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

This certificate program provides theory and experiments on computer-controlled system design and implementation. Three methods of computer control — programmable logic controller (PLC), General Purpose Interface Bus system (GPIB, HPIB, or IEEE 488), and microcontroller-based systems — are studied. Highlights of the course sequence include data acquisition using low- and high-level languages, control-variable measurement using sensors, D/A and A/D conversions, ladder diagrams, design of pneumatic and hydraulic-controlled systems, sampling and reconstruction, z transform, stability-analysis techniques, comparisons of continuous and discrete time-controlled systems, and open- and closed-loop controlled systems.

Upon satisfactory completion of this certificate program, you will be able to build your own computer-controlled system using a PLC, a GPIB, or a microcontroller.

The ECET department also offers the Bachelor of Science and Associate of Science with a major in electrical engineering technology, and Bachelor of Science with a major in computer engineering technology. In addition to the degrees, the department offers a minor in electronics and certificate programs in advanced microprocessors, electronics communications, power electronics systems, and computer networking.

To earn the certificate in computer-controlled systems, you must satisfy the requirements of IPFW (see Part 7), fulfill all course prerequisites, and satisfactorily complete the following courses with a grade of C or better. This certificate is not available to any student with a major in EET (A.S. and/or B.S.).

Program Requirements

- ECET 205 - Introduction to Microprocessors Cr. 4.
- ECET 302 - Introduction to Control Systems Cr. 4.

One of the following Credits: 3

- CS 114 - Introduction to Visual Basic Cr. 3.
- ECET 114 - Introduction to Microcomputers Cr. 3.

One of the following Credits: 4

- CPET 355 - Data Communications and Networking Cr. 4.
- ECET 355 - Data Communications and Networking Cr. 4.
- ECET 375 - Computer Controlled System Designs Cr. 3-4.

One of the following Credits: 4

- CPET 472 - Automatic Control Systems Cr. 4.
- ECET 365 - Electrical Measurements Cr. 4.
- ECET 472 - Automatic Control Systems Cr. 4.

Total Credits: 19

Critical Care Nursing Certificate

Program: Certificate

Department of Nursing

School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/hsc_nur

The primary objectives of this certificate are to provide:

- advanced knowledge and skills in the specialty of critical-care nursing to registered nurses and student nurses about to enter the workforce.
- the opportunity for nurses working in or intending to work in any acute-care area of nursing to increase skills and knowledge in critical care to meet the growing challenge of providing care to increasingly sick patients within the managed-healthcare environment.
- increased marketability of graduates from this program in a market where critical-care skills are valued.

To earn the certificate, you must:

- fulfill the requirements of IPFW (see Part 7).
- be a licensed RN. (Students enrolled in second-year nursing courses in the IPFW nursing program may participate with permission of the certificate program coordinator.)
- complete the following courses with a C or better:

Nursing Core (5 credits)

- NUR 362 - Acute Care Nursing Credits: 4
- NUR 245 - Basic Cardiac Dysrhythmias Cr. 1.
- NUR 345 - Trauma Nursing Cr. 1.
- NUR 399 - Special Topics Cr. 1-6.
Critical Care Clinical Credits: 1-2

Supporting Courses (7 credits)

- NUR 334 - Clinical Pathophysiology Cr. 4.
- PHIL 312 - Medical Ethics Cr. 3.

Approved Electives (3 credits)

(Credits in a course from nursing, SPEA, or the social sciences that better meets your goals may be substituted with the permission of the program coordinator)

One of the following Credits: 3

- GERN G231 - Introduction to Gerontology Cr. 3.
- NUR 309 - Transcultural Healthcare Cr. 3.

- NUR 319 - Alternative and Complementary Therapies Cr. 3.
- NUR 399 - Special Topics Cr. 1-6.
- PSY 367 - Adult Development and Aging Cr. 3.

Total Credits: 16–17

Dental Assisting Certificate

Program: Certificate in Dental Assisting Department of Dental Education School of Health Sciences

Neff Hall 150 ~ 260-481-6837

This program includes at least one semester of prerequisite courses and one year of dental assisting courses. The program offers a full-time curriculum that is accredited by the Commission on Dental Accreditation of the American Dental Association.

A Dental Assisting Certificate prepares you for a career as a dentalhealth professional who may choose to specialize in any of the following areas of dentistry: chairside general dentistry, expanded functions dental assisting (restorative) in general or pediatric dentistry, orthodontics, oral surgery, periodontics, assist in dental surgery at area hospitals, endodontics, public health dentistry, dental sales, dental insurance, dental research, business assisting, or office management or clinical supervision. The program combines didactic, laboratory, and clinical courses. Graduates are eligible to take the national boards to become a certified dental assistant (CDA) and take the state boards to obtain a dental radiology license in the State of Indiana.

Admission

Admission to IPFW does not confer admission to this program. To be admitted to the certificate program you apply separately to IPFW and the dental assisting program. Prospective dental assisting students must first complete prerequisite courses listed below or equivalent courses at another accredited college or university. These courses may not be graded on a pass/not-pass option. Remedial or developmental courses cannot be used to fulfill these prerequisite requirements. Students must maintain a GPA of 2.50 or higher. Two observations in dental offices are required. See department for application and observation forms. You must also make an appointment with a dental assisting advisor to discuss the program. Because space in the dental assisting program is limited to 24 students per year, admission is competitive. Applications for selection into the dental assisting program must be received no later than April 1 of the year an applicant wishes to enter the program. The number of eligible applicants each year exceeds the number of spaces available.

Prerequisite Courses

To apply for the Dental Assisting Certificate program, you must complete the following prerequisite courses by Aug. 15 with a cumulative GPA or higher grade of C:

Prerequisite and preferred admission courses must be completed by Aug. 15 for admission into the class that begins each fall. A minimum prerequisite GPA of 2.00 is required for all applicants. Required courses may be repeated until the applicant receives a grade of C or better. Repeated courses will not be averaged.

Effective for the 2008 class, the minimum prerequisite GPA of 3.0 will be required for all applicants.

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.

Preferred Admission

- CS 106 - Introduction to Computers Cr. 3.
- DAST A122 - Introduction to Dentistry Cr. 1.
- NUR 106 - Medical Terminology Cr. 3.

Total Credits: 9-16

Program Requirements

After acceptance into the program, you must fulfill the requirements of IPFW (see Part 7) and Dental Education, and satisfactory complete the following courses:

- DAST A111 - Oral Pathology, Physiology, and Anatomy Cr. 1-2.
- DAST A112 - Dental and Medical Emergencies and Therapeutics Cr. 2.
- DAST A121 - Microbiology and Asepsis Technique Cr. 1-2.
- DAST A131 - Dental Materials I Cr. 2.
- DAST A132 - Dental Materials II Cr. 2.
- DAST A141 - Preventive Dentistry and Nutrition Cr. 2.
- DAST A171 - Clinical Science I Cr. 4.
- DAST A172 - Clinical Science II Cr. 3-4.
- DAST A182 - Practice Management, Ethics, and Jurisprudence Cr. 2.
- DHYG H214 - Oral Anatomy Cr. 3
- DHYG H242 - Introduction to Dentistry - Specialities Cr. 1.
- DHYG H303 - Radiology (lecture and lab) Cr. 1-2.
- DHYG H305 - Radiology Clinic I Cr. 1.

Total Credits: 29

Electronic Communications Certificate

Program: Certificate

Department of Electrical and Computer Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

This certificate program provides theory and experiments for electronic communications topics ranging from low-frequency applications to fiber optics. It includes courses in analog communications (AM and FM), digital communications (satellite communications and digital TV), microwaves (high-frequency communications), and fiber optics. Computer programs such as SPICE, ACOLADE (digital communications), SYSCAD (analog communications), TOUCHSTONE (RF and microwave systems), and Microwave Office are incorporated into the curriculum.

Upon satisfactory completion of this certificate program, you will be familiar with all aspects of electronic communication and will have a technical background for work in any of the areas.

The ECET department also offers the Bachelor of Science and Associate of Science with a major in electrical engineering technology, and Bachelor of Science with a major in computer engineering technology. In addition to the degrees, the department offers a minor in electronics and certificate programs in advanced microprocessors, computer-controlled systems, power electronics systems, and computer networking.

To earn the certificate in electronic communications, you must satisfy the requirements of IPFW (see Part 7), fulfill all course prerequisites, and satisfactorily complete the following courses. This certificate is not available to any student with a major in EET (A.S. and/or B.S.).

Program Requirements

- ECET 303 - Communications I Cr. 4.
- ECET 377 - Introduction to Fiber Optics Cr. 4.
- ECET 403 - Communications II Cr. 4.
- ECET 473 - Microwaves Cr. 4.

Total Credits: 16

Ethnic and Cultural Studies Certificate

Program: Certificate in Ethnic and Cultural Studies School of Arts and Sciences

Classroom-Medical Building 154 ~ 260-481-6746

This certificate is available to all IPFW students interested in understanding the institutions, histories, and cultures of American ethnic groups.

To earn the certificate, you must (1) complete all requirements for a bachelor's degree, and (2) complete, with the approval of the program's advisory committee, 18 additional credits from the following list with a grade of C or higher in each course. No more than one independent-reading or internship course may be taken from the same department.

Credits in six of the following courses: 18

- EDUC E400 - Education in the Inner City
- EDUC E403 - Education in the Inner City Practicum
- MUS M395 - Contemporary Jazz and Soul Music
- ANTH E320 - Indians of North America Cr. 3.
- ECON E360 - Public Finance: Survey Cr. 3.
- FINA H415 - Art of Pre-Columbian America Cr. 3.
- FOLK F220 - Introduction to American Folklore Cr. 3.
- HIST A349 - Afro-American History Cr. 3.
- HIST T425 - Topics in History Cr. 1-3.
- PHIL 493 - Interdisciplinary Undergraduate Seminar Cr. 1-3.
- POLS Y398 - Internship in Urban Institutions Cr. 1-6.
- SOC S300 - Race and Ethnic Relations Cr. 3.
- SOC S494 - Field Experience in Sociology Cr. 1-6.

Total Credits: 18

Gerontology Certificate

Program: Certificate in Gerontology School of Arts and Sciences

Classroom-Medical Building 145 ~ 260-481-6019 ~ www.ipfw.edu/gerontology/

A certificate in gerontology is available to all IPFW students earning undergraduate degrees. It is also available to non-degree-seeking students. The program provides basic academic courses concerning aging as well as course work in social issues and applied topics concerning the elderly. A practicum component involves applied work in a setting serving older individuals.

To earn the certificate, you must (1) meet all regular IPFW admission requirements (see Part 7); and (2) complete the following 18 credits with a grade of C or better in each course. The program of study must be approved by the gerontology program director. All prerequisites must be satisfied before enrolling in any of the courses listed below.

Program Requirements

- GERN G231 - Introduction to Gerontology Cr. 3.

Credits from the following Credits: 12

(you may substitute independent or directed study in gerontology or aging in a suitable department as approved by the gerontology program director):

- HSRV 351 - Human Services for the Elderly
- ANTH E421 - The Anthropology of Aging Cr. 3.
- AUS 430 - Speech-Language Disorders in Healthcare Settings Cr. 3
- BIOL 327 - Biology of Aging Cr. 3.
- FNN 302 - Nutrition Education Cr. 3.
- or
- FNN 303 - Essentials of Nutrition Cr. 3.
- MUS L340 - Music Therapy in Healthcare Settings Cr. 3.
- MUS U410 - Creative Arts, Health, and Wellness Cr. 3.
- NUR 399 - Special Topics Cr. 1-6.
- PHIL 312 - Medical Ethics Cr. 3.
- PSY 367 - Adult Development and Aging Cr. 3.
- PSY 371 - Death and Dying Cr. 3.
- SOC S331 - Sociology of Aging Cr. 3.
- SPEA H411 - Long-Term Care Administration Cr. 3.

Practicum in a gerontological setting Credits: 3

approved by the gerontology program director, chosen from the following courses. Note that some of these courses may be taken only by those majoring in the sponsoring discipline.

- NUR 490 - Nursing Practicum
- AUS 549 - Clinical Practice in Speech/ Language Pathology I Cr. 1-8.
- HSRV 400 - Internship I Cr. 1-4.
- HSRV 401 - Internship Seminar I Cr. 1.
- HSRV 450 - Internship II Cr. 2-4.
- HSRV 451 - Internship Seminar II Cr. 1.
- MUS L254 - Music Therapy Practicum I Cr. 1.
- MUS L353 - Music Therapy Practicum II Cr. 1.
- MUS L354 - Music Therapy Practicum III Cr. 1.
- MUS L421 - Music Therapy Practicum IV Cr. 1.
- MUS L424 - Music Therapy Internship Cr. 1-2.
- PHIL 480 - Practicum in Applied Ethics Cr. 3.
- PSY 480 - Field Experience in Psychology Cr. 3.
- SOC S494 - Field Experience in Sociology Cr. 1-6.
- SPEA V380 - Internship in Public Affairs Cr. 1-6.

Total Credits: 18

Honors Program Certificate

Program: Certificate All Baccalaureate Degrees

Walb Union G25 ~ 260-481-6924 ~ www.ipfw.edu/honors

The Honors Program is an undergraduate program that seeks to create learning opportunities and an environment of intellectual excitement and discovery through enriched courses of study and activities within a learning community. Through involvement with the Honors Program, honors students enter into a partnership of learning that extends well beyond the classroom to incorporate an interdisciplinary approach with career-oriented skills. Rich course opportunities and tailored projects create an individual curriculum for each student.

The program is open to students of all majors and undergraduate degrees. Traditional incoming students become eligible for the Honors Program by meeting any one of the following criteria: placing in the top 10 percent of their high school's graduating class, scoring a 650 SAT in any one category, or attaining a 1800 SAT (or 27 ACT) composite score. Any student may participate in the Honors Program after 12 or more credit hours with GPA-related grades at IPFW and a 3.3 GPA or higher. Transfer students eligible for the program must have at least 12 credit hours of GPA-related grades (A, B, C, D, F, IF) with an equivalent of at least a 3.5 GPA on a 4.0 scale from the transferring institution.

To earn the certificate along with the Honors Medal, you must fulfill the requirements of IPFW (see Part 7) and the Honors Program, which are as follows:

1. 18 credits of honors coursework through honors courses or H-options
2. An honors project (including presentation and paper).
3. Honors courses that represent at least two disciplines.
4. At least three honors credits at the 300-level or above.
5. Both cumulative and honors GPA of 3.50 or higher.

In addition, students are highly encouraged to earn at least three credits of non-project honors coursework through honors courses. Because the Honors Program is an undergraduate program, all of the requirements of the program must be completed while the student is pursuing an undergraduate degree. Upon completion of such a degree, further completion of program requirements will not take effect unless work toward a different undergraduate degree is undertaken.

International Studies Certificate

Program: Certificate in International Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6632 or 260-481-6836

A certificate in international studies is available to all IPFW students who are interested in developing greater understanding of the histories and cultures of other nations and in studying the various means used to promote and maintain normal relations among them. You must be at least a sophomore in good standing to apply to this program.

To earn this certificate, you must complete the following credits with a grade of C or higher in each course as part of your bachelor's degree program:

Program Requirements

- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Credits from the following: 6

- (at least one course) in a non-Western area:
- SOC S308 - Introduction to Comparative Sociology
- BUS D300 - International Business Administration Cr. 3.
- ECON E340 - Introduction to Labor Economics Cr. 3.
- HIST H232 - The World in the 20th Century Cr. 3.
- MUS Z105 - Traditions in World Music Cr. 3.
- POLS Y109 - Introduction to International Relations Cr. 3.
- POLS Y200 - Contemporary Political Topics Cr. 1-6,
- POLS Y374 - International Organization Cr. 3.
- POLS Y401 - Studies in Political Science Cr. 3.

Credits from the following (at least one course) in a non-Western area Credits: 3

- ANTH E310 - Introduction to the Cultures of Africa Cr. 3.
- ANTH E321 - Peoples of Mexico Cr. 3.
- ANTH E330 - Indians of South America Cr. 3.
- ANTH E455 - Anthropology of Religion Cr. 3.
- ENG L113 - Introduction to African Literature Cr. 3.
- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- HIST D410 - Russian Revolutions and the Soviet Regime Cr. 3.
- HIST D426 - History of Balkans: 1914 to Present Cr. 3.
- HIST E332 - African History from Colonial Rule to Independence Cr. 3.
- HIST F342 - Latin America: Evolution and Revolution Cr. 3.
- HIST F346 - Modern Mexico Cr. 3.
- HIST F432 - 20th Century Latin American Revolutions Cr. 3.
- HIST F447 - U.S.-Latin American Relations Cr. 3.
- HIST H202 - Russian Civilization I-II Cr. 3.
- HIST T335 - Topics in Non-Western History Cr. 3.
- POLS Y339 - Middle Eastern Politics Cr. 3.
- POLS Y340 - East European Politics Cr. 3.
- REL 301 - Islam Cr. 3
- SOC S410 - Topics in Social Organization Cr. 3.
- SPAN S412 - Latin-American Culture and Civilization Cr. 3.

Additional Credits: 6

(may be chosen from the list below and/or from the list of non-Western courses above)

- ANTH A460 - Topics in Anthropology Cr. 1-3.
- ANTH E402 - Gender in Cross-Cultural Perspective Cr. 3.
- CMLT C340 - Women in World Literature Cr. 3.
- FINA H390 - Topics in Art History Cr. 3.
- FINA H415 - Art of Pre-Columbian America Cr. 3.
- FOLK F111 - Introduction to World Folk Music Cr. 3.
- FOLK F305 - Asian Folklore Cr. 3.
- FREN F464 - Civilisation Francaise II Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.
- GER G362 - Deutsche Landeskunde Cr. 3.
- GER G363 - Deutsche Kulturgeschichte Cr. 3.
- HIST A345 - American Diplomatic History I Cr. 3.
- HIST A346 - American Diplomatic History II Cr. 3.
- HIST B361 - Europe in the 20th Century I Cr. 3.
- HIST B378 - History of Germany II Cr. 3.
- INTL I208 - International Cinema Cr. 3.
- POLS Y335 - Western European Politics Cr. 3.
- POLS Y350 - Politics of the European Union Cr. 3.
- POLS Y367 - International Law Cr. 3.
- POLS Y371 - Workshop in International Topics Cr. 3.
- POLS Y376 - International Political Economy Cr. 3.
- POLS Y401 - Studies in Political Science Cr. 3.
- SPAN S411 - Spain: The Cultural Context Cr. 3.
- WOST W301 - International Perspectives on Women Cr. 3.

Notes:

Foreign Language Requirement In addition to the 18 credits stipulated above, students must demonstrate basic proficiency in a language other than English. The proficiency may be demonstrated by placing at the third-semester level or higher on the foreign language placement test, or by completing the first two semesters of a foreign language at the college level. Students who speak a language other than English are exempt from this requirement.

Total Credits: 18

Labor Studies Certificate

Division of Labor Studies

Program Offered: Certificate in Labor Studies

Kettler Hall G28 ~ 260-481-6831 ~ www.labor.iu.edu

To earn the certificate in labor studies, you must fulfill the requirements of IPFW (see Part 7) and successfully complete the following courses:

Program Requirements

- Credits in the Labor Studies Core: 15
- 3 credits in each Required Area of Learning Credits: 9
- Additional credits in one of the Required Areas of Learning Credits: 6

Credits from the Labor Studies Core Credits: 15

Credits from the following: 15

- LSTU L100 - Survey of Unions and Collective Bargaining Cr. 3.
- LSTU L101 - American Labor History Cr. 3.
- LSTU L110 - Introduction to Labor Studies: Labor and Society Cr. 3.
- LSTU L190 - The Labor Studies Degree Cr. 1.
- LSTU L200 - Survey of Employment Law Cr. 3.
- LSTU L201 - Labor Law Cr. 3.
- LSTU L203 - Labor and the Political System Cr. 3.
- LSTU L205 - Contemporary Labor Problems Cr. 3.
- LSTU L210 - Workplace Discrimination and Fair Employment Cr. 3.
- LSTU L220 - Grievance Representation Cr. 3.
- LSTU L230 - Labor and the Economy Cr. 3.
- LSTU L240 - Occupational Health and Safety Cr. 3.
- LSTU L250 - Collective Bargaining Cr. 3.
- LSTU L251 - Collective Bargaining Laboratory Cr. 1-3.
- LSTU L255 - Unions in State and Local Government Cr. 3.
- LSTU L260 - Leadership and Representation Cr. 3.
- LSTU L270 - Union Government and Organization Cr. 3.
- LSTU L280 - Union Organizing Cr. 3.

Required Areas of Learning for Labor Studies

Arts and Humanities

- Afro-American Studies
- Classical Studies
- Communication
- Comparative Literature
- English (except R150 and W130)
- Folklore
- Foreign Language
- History
- Journalism
- Music

- Philosophy
- Theatre
- Visual Arts

Sciences and Mathematics

- Anthropology (B200 and E445 only)
- Astronomy
- Biology
- Chemistry (except 100)
- Computer Science (includes BUS K200, K211, K212, K213, K214, K215, K216)
- Economics (E270 only)
- Entomology
- Forestry and Natural Resources
- Geography (G107 and G304 only)
- Geology
- Horticulture
- Mathematics (except 101, 102, 103, 109, 111, and 113)
- Physics
- Psychology (120, 201, 314, 333, 329, and 416 only)
- Sociology (S351 only)
- SPEA (K300 only)
- Statistics

Social and Behavior Sciences

- Anthropology
- Economics
- Geography
- Linguistics
- Political Science
- Psychology
- Sociology
- SPEA (J101 only)
- WOST (W210 only)

3 credits in each Required Area of Learning Credits: 9

Additional credits in one of the Required Areas of Learning Credits: 6

Total Credits: 30

Native American Studies Certificate

Program: Certificate in Native American Studies **School of Arts and Sciences**

Classroom-Medical Building 153 ~ 260-481-6160

A certificate in Native American studies is available to all IPFW students. The program provides an appreciation of the cultures, prehistory, history, and creative and artistic expression of Native Americans for the benefit of those who may be interested in social work, economic development, and Native American organizations.

To earn the certificate, you must meet all regular IPFW admission requirements (see Part 7) and complete the following courses with a grade of C or higher in each course:

Program Requirements

Credits in ethnography of Native Americans chosen from the following: Credits: 6

- ANTH E320 - Indians of North America Cr. 3.
- ANTH E321 - Peoples of Mexico Cr. 3.
- ANTH E330 - Indians of South America Cr. 3.
- HIST A310 - Survey of American Indians I Cr. 3.
- HIST A311 - Survey of American Indians II Cr. 3.

Credits in prehistory of Native Americans chosen from the following: Credits: 3

- ANTH E335 - Ancient Civilizations of Mesoamerica Cr. 3.
- ANTH P360 - Archaeology of North America Cr. 3.
- ANTH P370 - Ancient Cultures of South America Cr. 3.

Credits in history of Native Americans chosen from the following: Credits: 3

- HIST A310 - Survey of American Indians I Cr. 3.
- HIST A311 - Survey of American Indians II Cr. 3.
- HIST A318 - The American West Cr. 3.
- HIST F341 - Latin America: Conquest and Empire Cr. 3.
- HIST F342 - Latin America: Evolution and Revolution Cr. 3.
- HIST F432 - 20th Century Latin American Revolutions Cr. 3.

Credits in Native American studies chosen from the following: Credits: 3

- ENG L364 - Native American Literature Cr. 3.
- FINA H415 - Art of Pre-Columbian America Cr. 3.
- FOLK F352 - Native American Folklore Cr. 3.

Additional credits from the lists above or in an approved elective Credits: 3

Total Credits: 18

Peace and Conflict Studies Certificate

Program: Certificate in Peace and Conflict Studies School of Arts and Sciences

Classroom-Medical Building 153 ~ 260-481-6019

A certificate in peace and conflict studies is available to all IPFW students who wish to understand the dynamics of conflict as well as various paths toward peace, from the interpersonal to the global level. To earn this certificate, you must complete the following 15 credits with a grade of C or higher in each course:

Program Requirements

One of the following: Credits: 3

- PACS P200 - Introduction to Peace and Conflict Studies - Humanities Perspectives Cr. 3.
- PACS P201 - Introduction to Peace and Conflict Studies - Social/Behavioral Sciences Perspectives Cr. 3.

Credits in a social and behavioral sciences courses Credits: 3

Chosen from a list available in the School of Arts and Sciences office.

Credits in a humanities course Credits: 3

Chosen from a list available in the School of Arts and Sciences office.

Credits in another course Credits: 3

Chosen from either the humanities course list or the social and behavioral sciences course list.

One of the following senior-project courses: Credits: 3

- PACS P497 - Humanities Readings and Research in Peace and Conflict Studies Cr. 1-3.
- PACS P498 - Social and Behavioral Sciences Readings and Research in Peace and Conflict Studies Cr. 1-3.
- PACS P499 - Social and Behavioral Sciences Internship in Peace and Conflict Studies Cr. 1-3.

Total Credits: 15

Piano Pedagogy Certificate

Program: Certificate in Piano Pedagogy

Department of Music

School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714

Program Requirements

If you intend to be a professional piano studio teacher, you may earn the certificate in piano pedagogy by satisfying the requirements of IPFW (see Part 7) and the School of Visual and Performing Arts (see Part 3), completing the following courses, and earning a grade of C or better in each:

- Credits in applied music Credits: 8
- Credits in ensemble course(s) Credits: 2
- MUS E193 - Piano Pedagogy I Cr. 2.
- MUS E194 - Piano Pedagogy II Cr. 2.
- MUS E293 - Piano Pedagogy III Cr. 2.
- MUS E294 - Piano Pedagogy IV Cr. 2.
- MUS M201 - Music Literature I Cr. 2.
- MUS M202 - Music Literature II Cr. 2.
- MUS T113 - Music Theory I Cr. 3.
- MUS T114 - Music Theory II Cr. 3.
- MUS T115 - Sight-singing and Aural Perception I Cr. 1.
- MUS T116 - Sight-singing and Aural Perception II Cr. 1.
- MUS X296 - Applied Music Upper Divisional Jury Examination Cr. 0.
- MUS X299 - Piano Proficiency Examination Cr. 0.

Total Credits: 30

Power Electronic Systems Certificate

Program: Certificate

Department of Electrical and Computer Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

This certificate program addresses the fundamental principles and main issues in power electronic applications and provides the theoretical and practical knowledge for analysis, design, and implementation of power electronics systems and subsystems. Applications include microprocessor-based subsystem hardware and software, electrical machines (dc and ac motors, and transformers), C programming and real-time embedded systems, characteristics of power semiconductor devices (diodes, rectifiers, power transistors, MOSFETs, thyristors, and IGBT), SPICE circuit simulators, power converters, dc drives, and ac drives.

Upon satisfactory completion of this certificate program, you will be familiar with all aspects of electronic communication and will have a technical background for work in any of the areas.

The ECET department also offers the Associate of Science and Bachelor of Science with a major in electrical engineering technology and Bachelor of Science with a major in computer engineering technology. In addition to the degrees, the department offers a minor in electronics and certificate programs in advanced microprocessors, computer-controlled systems, electronic communications, and computer networking.

Program Requirements

To earn the certificate in power electronic systems, you must satisfy the requirements of IPFW (see Part 7), fulfill all course prerequisites, and satisfactorily complete the following courses. This certificate is not available to any student with a major in EET (A.S. and/or B.S.).

- ECET 205 - Introduction to Microprocessors Cr. 4.
- ECET 231 - Electrical Power and Controls Cr. 4.
- ECET 264 - C Programming Language Applications Cr. 3.
- ECET 312 - Power Electronics Cr. 4.
- ECET 499 - Electrical Engineering Technology Cr. 1-9.

Total Credits: 19

Quality Certificate

Program: Certificate

Department of Mechanical and Industrial Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 205 ~ 260-481-6385 ~ www.mft.ipfw.edu

This certificate program prepares graduates with skills in techniques related to quality, such as design of experiments, metrology, and statistical process control. The program provides focused study in the techniques of maintaining and improving quality of manufacturing processes.

Credits earned in the certificate program may be applied toward the associate and bachelor's programs in industrial engineering technology.

Program Requirements

To earn the certificate, you must fulfill the requirements of IPFW (see Part 7) and complete the following courses, earning a grade of C or better in those courses that serve as prerequisites:

- IET 105 - Industrial Management Cr. 3.
- IET 204 - Techniques of Maintaining Quality Cr. 3.
Grade of C or better required
- IET 304 - Advanced Metrology Cr. 3.
- IET 454 - Statistical Process Control Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.
Grade of C or better required

One of the following: Credits: 5-6

- MA 153 - Algebra and Trigonometry I Cr. 3.
and
- MA 154 - Algebra and Trigonometry II Cr. 3.
Grade of C or better required
or
- MA 159 - Precalculus Cr. 5.
Grade of C or better required

Total Credits: 20-21

Risk and Emergency Management Certificate

Program: Certificate in Risk and Emergency Management

Division of Public and Environmental Affairs

Neff Hall 260 ~ 260-481-6351 ~ www.ipfw.edu/spea/

The certificate in risk and emergency management will inform and enhance the knowledge base and skill level of those responsible for managing risks and emergencies. It is recommended for students from any major that, during their careers, may directly or indirectly be involved in managing emergencies and disasters. Students need not be enrolled in a degree program to complete this certificate.

To earn the certificate, students must complete at least 11 credit hours as residency credits at IPFW. All courses must be completed with a grade of C– or better.

Program Requirements

- CS 292 - Intermediate Topics in Computer Science Cr. 2-3.
- HSC 499 - Special Topics in Health Sciences Cr. 2-6.
- SOC S410 - Topics in Social Organization Cr. 3.
- SPEA V275 - Introduction to Emergency Management Cr. 3.
- SPEA V387 - Public Administration and Emergency Management Cr. 3.
- SPEA V389 - Risk and Hazard Mitigation Cr. 3.

And Select:

- POLS Y200 - Contemporary Political Topics Cr. 1-6,
- POLS Y401 - Studies in Political Science Cr. 3.

Total Credits: 21

Supervisory Leadership Certificate

Program: Certificate

Division of Organizational Leadership and Supervision

Neff Hall 288 ~ 260-481-6420

This certificate program helps you prepare for supervisory leadership positions in any industry. The classes can later be applied toward an associate degree with a major in organizational leadership and supervision. Interested individuals must apply for the program before completing 9 hours of applicable course work.

The certificate option is available to community members who enter as non-degree seeking students and to students in good academic standing who are enrolled in non-OLS plans of study. OLS-degree-seeking students are not eligible to enter the certificate program.

To earn the certificate, you must fulfill the requirements of IPFW (see Part 7) and the Division of Organizational Leadership and Supervision (see Part 3), complete the following courses, and earn a grade of C or better in each course:

Program Requirements

- OLS Elective Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 268 - Elements of Law Cr. 3.
- OLS 274 - Applied Leadership Cr. 3.
- OLS 375 - Training Methods Cr. 3.

Total Credits: 21

Teaching English as a New Language Certificate

Program: Certificate in Teaching English as a New Language Department of English and Linguistics

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

The Certificate in Teaching English as a New Language (TENL) is an 18-hour program intended primarily for students working toward an IPFW degree, especially education majors who wish to be trained in teaching English to non-native speakers. It will also serve those who wish to facilitate their employment abroad and those who have technical or business experience and wish to work with non-native speakers in professional settings. The required courses will familiarize students with the major theoretical foundations of teaching English as a second and foreign language and acquaint them with the relevant pedagogy. Students will acquire experience in teaching non-native speakers in appropriate classrooms. The certificate can stand alone as a separate credential or be integrated with the requirements of the B.A. program in English.

Program Restrictions

No course with a grade below C may be applied toward the certificate.

Program Requirements

Grammar Credits: 3

SPAN S428 may, in conjunction with other linguistics courses, meet the grammar requirement.

- ENG G302 - Structure of Modern English (TESOL) Cr. 3.

Methods Credits: 6

- LING L321 - Methods and Materials for TESOL I Cr. 3.
- LING L322 - Methods and Materials for TESOL II Cr. 3.

Language Acquisition Credits: 3

- ENG G432 - Second Language Acquisition Cr. 3.

Sociolinguistics Credits: 3

- LING L360 - Language in Society Cr. 3.

Practicum Credits: 3

- LING L470 - TENL Practicum Cr. 3.

Women's Studies Certificate

Program: Certificate

School of Arts and Sciences

Classroom-Medical Building 272 ~ 260-481-6711

Women's studies is based on the premise that the study of women's experiences, concerns, social roles, and creativity is essential to our knowledge of humankind and society. Feminist scholarship and theory provide the knowledge and analytical tools necessary for a gender-balanced perspective on our world, both past and present. The Women's Studies Program affords you the opportunity to pursue feminist scholarship on women and gender through a variety of interdisciplinary courses.

See School of Arts and Sciences in Part 3 for further information.

The Women's Studies Certificate is designed for students majoring in academic programs outside the School of Arts and Sciences who are interested in a concentration of course work in women's studies. This program is also appropriate for community members who wish to augment or update past academic studies in a field that has relevance for today's more diverse workforce and society. The required 21 credits are allocated as follows and must be completed with a grade of C or higher in each course:

Program Requirements

- One cross-listed course from the student's department, division, or school to be counted in the student's major as well as in the certificate, or any other WOST-prefixed or cross-listed course Credits: 3
- WOST-prefixed or cross-listed course in science or social science Credits: 3
- WOST-prefixed or cross-listed course in visual arts or humanities Credits: 3
- WOST-prefixed or cross-listed course Credits: 3
- WOST W210 - Introduction to Women's Studies Cr. 3.
- WOST W301 - International Perspectives on Women Cr. 3.
- WOST W400 - Topics in Women's Studies Cr. 3.
(the capstone course)

Total Credits: 21

Concentration

Accounting Area Concentration

The accounting concentration provides you with academic preparation for careers in auditing, corporate accounting and management services, governmental and nonprofit organizations, public accounting, and taxation. In addition, it equips you with a management tool for intelligent analysis, prediction, decision making, and control.

Upon successfully completing the B.S.B. and accounting concentration requirements, you may be eligible to sit for various professional certification examinations. Students interested in sitting for these examinations should check with the Department of Accounting and Finance (Neff 350) for further information.

You are encouraged to inquire about accounting internships (BUS A336) and co-op programs that may be available to you.

To earn the accounting area concentration, you must earn a grade of C or better in each of the following courses:

Program Requirements

- BUS A311 - Intermediate Accounting I Cr. 3.
- BUS A317 - Computer-Based Accounting Systems Cr. 3.
- BUS A325 - Cost Accounting Cr. 3.
- BUS A331 - Taxation of Business Entities Cr. 3.

Credits in four of the following Credits: 12

- BUS A441 - Special Topics In Assurance Services
- BUS A312 - Intermediate Accounting II Cr. 3.
- BUS A314 - Financial Statement Analysis Cr. 3.
- BUS A332 - Taxation of Individuals Cr. 3.
- BUS A422 - Advanced Financial Accounting Cr. 3.
- BUS A424 - Auditing Cr. 3.
- BUS A425 - Contemporary Accounting Theory Cr. 3.

- BUS A437 - Advanced Management Accounting Cr. 3.
- BUS L303 - Commercial Law II Cr. 3.

Note

1. The department offers a certificate program in accounting for individuals who have completed a nonaccounting baccalaureate degree. See Accounting under Program Descriptions in the *Bulletin*.
2. The department offers an optional program to accommodate Indiana's new requirement of 150 hours of education to obtain the CPA certificate. You may contact the department chair for further information.

Business Economics and Public Policy Area Concentration

The business economics and public policy concentration explores the economic environments in which businesses must operate, as well as the interrelationships among micro-and macroeconomic conditions, private-sector decision making, and governmental programs. You have opportunities to study economic problems and their alternative solutions. You may also study aspects of employment, inflation, international trade, and other economics subject areas.

If you wish to become a professional economist, you should prepare for graduate study by taking additional courses in mathematics, statistics, computer science, and/or research methods.

To earn the business economics and public policy area concentration, you must earn a grade of C or better in each of the following courses:

Program Requirements

- Credits in an approved 300/400 level economics course Credits: 3
- ECON E306 - Undergraduate Seminar in Economics Cr. 3
- ECON E321 - Intermediate Microeconomic Theory Cr. 3.
- ECON E322 - Intermediate Macroeconomic Theory Cr. 3.

Total Credits: 12

English and Communication Media Concentration

Program Requirements

- Credits in two 300- or 400-level writing courses (ENG W331, W350, W365, W398, W420, W462; JOUR J310) Credits: 6
- Credits in classics, comparative literature, English, film, or folklore Credits: 3
- JOUR J200 - Reporting, Writing and Editing I Cr. 3.

One of the following Credits: 3

- COM 250 - Mass Communication and Society Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.
- JOUR J110 - Foundations of Journalism and Mass Communication Cr. 3.

Note

In addition, you must complete a minor in one of the following outside fields: business studies, communication studies, journalism, international language and culture studies, professional writing, or fine arts. No more than 6 credits applied to the minor will apply to the major.

English Language Concentration

Program Requirements

- Credits in two additional courses in linguistics (including AUS 306), the English language, anthropological linguistics (including ANTH L200 and L400), or psycholinguistics (including AUS 181, 182, 309; PSY 426, 526) Credits: 6

One of the following Credits: 3

- LING L103 - Introduction to the Study of Language Cr. 3.
- LING L303 - Introduction to Linguistic Analysis Cr. 3.

One of the following Credits: 3

- ENG G301 - History of the English Language Cr. 3.
- ENG L304 - Old English Language and Literature Cr. 3.

One of the following Credits: 3

- COM 521 - Theories of Rhetoric Cr. 3.
- ENG W310 - Language and the Study of Writing Cr. 3.
- ENG W462 - Studies in Rhetoric and Composition Cr. 3.
- LING L360 - Language in Society Cr. 3.

Note

The department recommends the study of a second foreign language with a foreign-language minor.

English Literature Concentration

Program Requirements

- Credits in one additional course in American literature Credits: 3
- Credits in one additional course in British literature before 1700 Credits: 3
- Credits in one additional course in British literature after 1700 Credits: 3
- Credits in two additional courses in classics, comparative literature, English, film, or folklore Credits: 6

Note

If you plan to work toward advanced degrees (M.A., Ph.D.) in English, the department recommends additional period or major-author courses and study of a second foreign language. If you are a prelaw student, the department recommends upperlevel writing courses.

English Teacher Certification Concentration

(21 Credits Plus 32 Professional Education Credits)

To be eligible for teacher certification, you must earn a GPA of 2.00 or higher in each general education area. You should work closely with your advisor to ensure completion of general education requirements. You must also earn a cumulative GPA of 2.50 or higher in your major area and the professional education courses. Each professional education course must be completed with a grade of C or better.

The School of Education requires that you first complete EDUA F300, EDUC W200/M101, and EDUC K201 before you are permitted to take professional education courses. Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

Program Requirements

- Credits in one additional course in language study Credits: 3
- Credits in one course in ethnic, minority, or non-Western literature Credits: 3
- Credits in one course in Western literature other than British or American Credits: 3
- Credits in one course in mass communication, including journalism and film Credits: 3
- Credits in one additional course, 300 level or higher, in writing, literature, language study, or mass communication Credits: 3
- ENG L391 - Literature for Young Adults Cr. 3.
- ENG W400 - Issues in Teaching Writing Cr. 3.

School of Education Requirements

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.

- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC M447 - Methods of Teaching High School English Cr. 3.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.

And Select:

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC P250 - General Educational Psychology Cr. 1-4.

And Select:

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

Middle School Certification (Recommended)

- EDUC M470 - Practicum Cr. 3-8.

Finance Area Concentration

The finance concentration is composed of courses that have been selected to familiarize you with the theory, instruments, and institutions of finance, and with a financial approach for structuring and analyzing management decisions. The study of finance provides a basis for careers in corporate financial management, as well as executive positions in commercial banking, savings and credit institutions, and the investment field.

To earn the finance area concentration, you must earn a grade of C or better in each of the following courses:

Program Requirements

- BUS F303 - Intermediate Finance Cr. 3.
- BUS F310 - Financial Statement Analysis - Finance Perspective Cr. 3.
- BUS F345 - Money/Banking/Capital Markets Cr. 3
- ECON E321 - Intermediate Microeconomic Theory Cr. 3.

Credits in four of the following: 12

- BUS A325 - Cost Accounting Cr. 3.
- BUS F420 - Equity and Fixed Income Investments Cr. 3.
- BUS F446 - Management of Commercial Banks and Other Financial Institutions Cr. 3.
- BUS F494 - International Finance Cr. 3.
- ECON E322 - Intermediate Macroeconomic Theory Cr. 3.

Total Credits: 24

Management and Administration Area Concentration

The management and administration concentration provides you with an opportunity to study a broad scope of business and economics subjects, as well as concepts and theories of managing complex business operations. The courses stress goal setting, planning, controlling, and problem solving in the context of major business firms in domestic and international environments.

To earn the management and administration area concentration, you must earn a grade of C or better in each of the following courses:

Program Requirements

- Credits in two additional 400-level management courses (These may include BUS M426 Sales Management) Credits: 6
- BUS D300 - International Business Administration Cr. 3.
- BUS K327 - Deterministic Models in Operations Research Cr. 3.
- BUS Z440 - Personnel: Human Resources Management Cr. 3.

Total Credits: 15

Marketing Area Concentration

The marketing area concentration is concerned with the movement of goods and services from the producer to the customer. It encompasses such topics as consumer behavior, product development, pricing, channels of distribution, promotion, marketing research, and effective management of corporate marketing operations.

To earn this area concentration, you must earn a grade of C or better in each of the following courses:

Program Requirements

- Credits in two additional 400-level marketing courses Credits: 6
- BUS D300 - International Business Administration Cr. 3.
- BUS M303 - Marketing Research Cr. 3.

- BUS M450 - Marketing Strategy and Policy Cr. 3.

Total Credits: 15

Writing Concentration

Program Requirements

- Credits in three W-prefixed courses in writing (ENG W203 or courses above the 200 level) Credits: 9
- Credits in one course in writing above the 300 level Credits: 3
- Credits in one additional course in classics, comparative literature, English, film, or folklore Credits: 3

Note

If you are interested in writing professionally, the department recommends a minor in business studies or journalism.

Dual Degree

Biology and in Medical Technology (4+1 Program) (Dual B.S.)

Program: B.S.

Department of Biology

School of Arts and Sciences

Science Building 330, 260-481-6305, www.ipfw.edu/bio

Under this plan you meet the requirements for the B.S. with a major in biology. Then, during your senior year, you seek admission to an approved hospital school of medical technology and complete one year of technical experience there the following year. Upon successful completion of the hospital- school year, you have the option of petitioning IPFW for a second baccalaureate degree (dual B.S. in biology and medical technology).

Endorsement

Computer Education Endorsement

In addition to the major in secondary education, students may earn a Computer Education Endorsement. This endorsement will have the same school setting coverage as the coverages listed on the license for the secondary degree.

Program Requirements

- CS 114 - Introduction to Visual Basic Cr. 3.
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- EDUC W310 - Computer-Based Teaching Methods Cr. 3.
- EDUC W410 - Practicum in Computer- Based Education Cr. 3-8.
Credits: 3
- MA 153 - Algebra and Trigonometry I Cr. 3.

One of the following:

- CS 106 - Introduction to Computers Cr. 3.
- EDUC W210 - Introduction to Computer- Based Education Cr. 3.

Total Credits: 26

Middle School/Junior High Endorsement

In addition to the major in elementary education students may earn a middle school/junior high endorsement in language arts, mathematics, science, and/or social studies. This endorsement will have the same school setting coverage as the coverages listed on the license for the elementary degree plus middle school/junior high. Each endorsement requires 24 credits of content courses and a 4-credit middle school practicum. If completing more than one endorsement, you only need one practicum for all endorsements.

Language Arts (24 credits)

- British literature elective (300 level or higher) Credits: 3
- American literature elective (300 level or higher) Credits: 3

One of the following: Credits: 3

- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.

One of the following: Credits: 3

- ENG L202 - Literary Interpretation Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

One of the following: Credits: 3

- ENG G205 - Introduction to the English Language Cr. 3.
- ENG G206 - Introduction to the Study of Grammar Cr. 3.
- LING L103 - Introduction to the Study of Language Cr. 3.

One of the following: Credits: 3

- COM 250 - Mass Communication and Society Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.

One of the following: Credits: 3

- ENG L390 - Children's Literature Cr. 3.
- ENG L391 - Literature for Young Adults Cr. 3.

One of the following: Credits: 3

- EDUC E340 - Methods of Teaching Reading I Cr. 2-3.
Credits: 3
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

Mathematics (24 credits)

- Computer science elective Credits: 3
- Mathematics, computer science, or statistics electives Credits: 2–3
- MA 101 - Mathematics for Elementary Teachers I Cr. 3.
- MA 102 - Mathematics for Elementary Teachers II Cr. 3.
- MA 103 - Mathematics for Elementary Teachers III Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
(or waiver)
- STAT 125 - Communicating with Statistics Cr. 3.

One of the following Credits: 3-4

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

Science (24 credits)

- Science electives Credits: 0–2
- AST A100 - The Solar System Cr. 3.

- BIOL 100 - Introduction to the Biological World Cr. 3.
 - BIOL 100L - Introduction to the Biological World Laboratory Cr. 1.
 - CHM 111 - General Chemistry Cr. 3.
 - GEOL G100 - General Geology Cr. 3-5.
- Credits: 3

One of the following Credits: 3

- BIOL 349 - Environmental Science Cr. 3.
- GEOG G315 - Environmental Conservation Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.

One of the following Credits: 3-5

- PHYS 131 - Concepts in Physics I Cr. 3.
- PHYS 152 - Mechanics Cr. 5.

One of the following Credits: 3

- EDUC Q200 - Introduction to Scientific Inquiry Cr. 1-3.
- Credits: 3
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.

Social Studies (24 credits)

- American history Credits: 3
- Sociology Credits: 3
- Political science Credits: 3
- Social studies electives Credits: 6
- PSY 120 - Elementary Psychology Cr. 3.

One of the following Credits: 3

- ECON E200 - Fundamentals of Economics Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.

One of the following Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.
- HIST H232 - The World in the 20th Century Cr. 3.

Honors

Geology Honors Program

Program: Honors Program

Department of Geosciences

School of Arts and Sciences

Science Building 230 ~ 260-481-6249 ~ www.geosci.ipfw.edu

Students are encouraged to participate in the departmental honors program. To complete the program, you must maintain a GPA of 3.50 or higher in geology and a cumulative GPA of 3.30 or higher, and must complete at least 1 credit of GEOL G499 Honors Research in Geology leading to a thesis, the results of which must be publicly presented.

Philosophy Honors Program

A student may earn an honors B.A. degree in philosophy by achieving an overall GPA of 3.50 and a philosophy GPA of 3.50 or higher; conducting a two-semester (6 credit) research project; preparing a senior thesis based on the research project; and giving an oral presentation of the thesis research. The senior thesis committee must be established one semester before graduation.

Psychology Honors Program

A student may earn an honors degree in psychology by completing all of the requirements toward the B.A., achieving an overall GPA of 3.50 or higher, and conducting a two-semester independent research project. In the first semester of independent research the student is to complete three credits of PSY 498 or PSY 590. In the second semester, the student is to complete an honors thesis, PSY 499. As part of the honors thesis, an oral presentation to the department is required.

Minor

Anthropology Minor

Program: Minor

Department of Sociology and Anthropology

School of Arts and Sciences

Kettler Hall G11A ~ 260-481-6272 ~ www.ipfw.edu/soca/anthhome.htm

Courses in anthropology provide an understanding of the nature of cultures and help you assess various explanations of human

behavior; they also assist in the development of analytical and critical abilities. The curriculum is structured to include studies in the history and theory of anthropology, in four anthropological fields (ethnology, archaeology, bioanthropology, and linguistics), in at least two different world ethnographic areas, and in topical specializations. The program helps you prepare for graduate study, for teaching, and for careers in which the understanding of various cultures is an asset.

Although a minor is not required for the B.A. with a major in anthropology, an outside concentration is recommended. Fifteen credits in history, political science, psychology, or sociology support the concentration.

If you are pursuing a major other than anthropology, you may earn a minor in anthropology by completing the following credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW:

Program Requirements

Two of the following: Credits 6

- Additional anthropology credits Credits: 9
- ANTH B200 - Bioanthropology Cr. 3.
- ANTH E105 - Culture and Society Cr. 3.
- ANTH L200 - Language and Culture Cr. 3.
- ANTH P200 - Introduction to Prehistoric Archaeology Cr. 3.

Total Credits: 15

Applied Ethics Minor

Program: Minor **Department of Philosophy** **School of Arts and Sciences**

Neff Hall 130 ~ 260-481-6366

A minor in applied ethics; including human rights issues, complements a major in such fields as anthropology, biology, business, communication, English, health sciences, history, psychology, or sociology. The minor also enhances your preparation for graduate study in any of these fields or in law, medicine, natural science, philosophy, religion and theology, or social work.

To earn a minor in applied ethics, you must complete the following credits with a grade of C or better in each course; at least 8 of the credits must be earned as resident credit at IPFW:

Program Requirements

- Credits in an applied ethics course (e.g., PHIL 312, 326, 327, or 328) Credits: 3
- Credits in another PHIL course at the 300 level or above Credits: 3

- PHIL 111 - Ethics Cr. 3.
- PHIL 150 - Principles of Logic Cr. 3.
- PHIL 480 - Practicum in Applied Ethics Cr. 3.

Total Credits: 15

Art History Minor

Program: Minor

Department of Visual Arts/Fine Arts Program

School of Visual and Performing Arts

Visual Arts 117 ~ 260-481-6705 ~ www.ipfw.edu/vpa

You may earn a minor in art history by completing 18 credits selected from the following courses and earning a grade of C or better in each:

Program Requirements

- Credits in art history selected from the following Credits: 18
- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.
- FINA H311 - Art of the Ancient World Cr. 3.
- FINA H312 - Art of the Medieval World Cr. 3.
- FINA H313 - Art of the Renaissance and Baroque Cr. 3.
- FINA H314 - Art of the Modern World Cr. 3.
- FINA H411 - 19th Century Art I Cr. 3.
- FINA H412 - 19th Century Art II Cr. 3.
- FINA H413 - 20th-Century Art: 1900-1924 Cr. 3.
- FINA H414 - 20th Century Art: 1925-Present Cr. 3.
- FINA H415 - Art of Pre-Columbian America Cr. 3.
- FINA H495 - Readings and Research in Art History Cr. 1-4

Total Credits: 18

Biology Minor

Program: Minor
Department of Biology
School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

If you are pursuing a major other than biology, you may earn a minor in biology by completing each of the following courses with a grade of C or better and earning at least 10 credits as resident credit at IPFW:

Program Requirements

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.

Total Credits: 18

Business Studies Minor

Program: Minor
SBMS Undergraduate Student Affairs Center
Richard T. Doermer School of Business and Management Sciences

Neff Hall 366 ~ 260-481-6472 ~ www.ipfw.edu/bms

The minor in business studies provides a fundamental background in the principles of business and economics. The minor is available to any IPFW student majoring in a nonbusiness bachelor's degree program. Your eligibility for this program is governed by the policies of the division/department in which you are enrolled. Please see your academic advisor for additional information.

To earn this minor, you must be regularly admitted to an IPFW bachelor's degree program that permits this option. All courses that compose this option have specific prerequisites. You must meet the prerequisites for each course and earn a grade of C or better in each course marked with an *. Some of these courses may be applicable to other requirements of your degree program. See your academic advisor for details.

Program Requirements

- BUS A201 - Principles of Financial Accounting Cr. 3.
*

- BUS A202 - Principles of Managerial Accounting Cr. 3.
*
- BUS K211 - Spreadsheets for Business Cr. 1.
*
- BUS K212 - Introduction to Database Management Cr. 1.
- BUS K213 - Internet Literacy for Business Cr. 1.
- BUS L200 - Elements of Business Law Cr. 1.
*
- BUS W204 - Social, Legal, and Ethical Implications of Business Decisions Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.
*
- ECON E202 - Introduction to Macroeconomics Cr. 3.
*
- ECON E270 - Introduction to Statistical Theory in Economics and Business I Cr. 3.
*
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
(or MA 165 or 223)

Two of the following: Credits 6

Upon completion of all above courses and after attaining junior class standing, you may select a maximum of two from the following:

- BUS D300 - International Business Administration Cr. 3.
*
- BUS F301 - Financial Management Cr. 3.
*
- BUS M301 - Marketing Management in a Competitive Environment Cr. 3.
*
- BUS P301 - Managing Operations in a Competitive Environment Cr. 3.
*
- BUS Z302 - Management of Organizations and People Cr. 3
*

Note

As a major in another bachelor's degree program, you are not eligible to enroll in any additional business or economics courses. No more than 25 percent of a nonbusiness student's baccalaureate curriculum may be in subjects available in the Richard T. Doermer School of Business and Management Sciences.

Total Credits: 31

Chemistry Minor

Program: Minor
Department of Chemistry
School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

If you are pursuing a major other than chemistry, you may earn a minor in chemistry by completing the following courses with a grade of C or better and earning at least 13–15 credits as resident credits at IPFW:

Program Requirements

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 218 - Introduction to Inorganic Chemistry Cr. 3.

Credits in one of the following Credits: 3–4

- CHM 371 - Physical Chemistry Cr. 3.
- CHM 383 - Physical Chemistry Cr. 4.

Credits in one of the following courses in analytical chemistry Credits: 4

- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 321 - Analytical Chemistry I Cr. 4.

One of the following sequences Credits: 8–10

- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- or
- CHM 261 - Organic Chemistry Cr. 3.
- CHM 262 - Organic Chemistry Cr. 3.
- CHM 265 - Organic Chemistry Laboratory Cr. 2.
- CHM 266 - Organic Chemistry Laboratory Cr. 2.

Total Credits: 26-29

Communication Studies Minor

Program: Minor

Department of Communication

School of Arts and Sciences

Neff Hall 230 ~ 260-481-6825 ~ www.ipfw.edu/comm/

If you are pursuing a major other than interpersonal and organizational communication or media and public communication, you may earn this minor by completing the following requirements with a grade of C or better and earning at least 9 credits as resident credit at IPFW:

Program Requirements

- Credits in communication courses approved for communication B.A. majors Credits: 6
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.
- COM 250 - Mass Communication and Society Cr. 3.
- COM 300 - Introduction to Communication Research Methods Cr. 3.
- COM 318 - Principles of Persuasion Cr. 3.

Total Credits: 18

Computer Science Minor

Program: Minor

Department of Computer Science

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 125 ~ 260-481-6803 ~ www.cs.ipfw.edu

If you are pursuing a major other than computer science, you may earn a minor in computer science by completing the following courses. Only computer science courses in which you have earned a grade of C or better can be applied to the degree or used to satisfy prerequisites.

Program Requirements

- Credits in approved computer science courses at the 200 level or above Credits: 6
- CS 160 - Introduction to Computer Science I Cr. 4.

- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- MA 175 - Introductory Discrete Mathematics Cr. 3.

Total Credits: 20

Creative Writing Minor

Program: Minor

Department of English and Linguistics

School of Arts and Sciences

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

This program is available to all IPFW students except those pursuing the communication media, teacher-certification, or writing concentration with a major in English.

You may earn the minor by completing the following 15 credits, including at least 8 credits earned as resident credit at IPFW, with a grade of C or better in each course.

Program Requirements

- One additional writing course, 300 level or above Credits: 3
- One additional course in classics, comparative literature, English, (except ENG W130, W131, W135, W233), film, folklore, or linguistics; or COM 436 or THTR 376 Credits: 3
- ENG W203 - Creative Writing Cr. 3.

One of the following: Credits: 3

- ENG W301 - Writing Fiction Cr. 3.
- ENG W303 - Writing Poetry Cr. 3.

One of the following Credits: 3

- ENG W401 - Advanced Fiction Writing Cr. 3.
- ENG W403 - Advanced Poetry Writing Cr. 3.

Total Credits: 15

Criminal Justice Minor

Program: Minor

Neff Hall 260 ~ 260-481-6351 ~ www.ipfw.edu/spea/

The minor in criminal justice offers you the opportunity to become more knowledgeable in the field of criminal justice and its policy implications. It is available to students who are enrolled in baccalaureate programs other than the Bachelor of Science in Public Affairs with a major in criminal justice. The minor can enhance the career opportunities for liberal arts and other majors.

Program Requirements

Each minor requires 15 credit hours of specified courses with a 2.00 grade-point average, and none of the courses may be taken by correspondence through the Division of Continuing Studies. SPEA majors may only double-count 6 of the required 15 credit hours in other SPEA major or minor requirements. Students may earn more than one minor from SPEA, but each minor must have at least 9 credit hours that are not satisfying other major or minor requirements.

- SPEA J101 - The American Criminal Justice System Cr. 3.
C– or better required.

One of the following: Credits: 3

- SPEA J201 - Theoretical Foundations of Criminal Justice Policies Cr. 3.
- SPEA J301 - Substantive Criminal Law Cr. 3.

Three of the following: Credits: 9

- SPEA J201 - Theoretical Foundations of Criminal Justice Policies Cr. 3.
- SPEA J301 - Substantive Criminal Law Cr. 3.
- SPEA J306 - The Criminal Courts Cr. 3.
- SPEA J321 - American Policing Cr. 3.
- SPEA J331 - Corrections Cr. 3.

Total Credits: 15

Dance Minor

Program: Minor
Department of Theatre
School of Visual and Performing Arts

Williams Theatre 128 ~ 260-481-6551 ~ www.ipfw.edu/vpa

You may earn a theatre dance minor by completing the following courses and earning a grade of C or better in each course.

Program Requirements

- THTR 117 - Jazz Dance I Cr. 2.
- THTR 121 - Tap I Cr. 2.
- THTR 125 - Ballet I Cr. 2.
- THTR 137 - Jazz Dance II Cr. 2
- THTR 145 - Ballet II Cr. 2.
- THTR 221 - Tap II Cr. 2.
- THTR 424 - Basic Choreography for the Theatre Cr. 3.

One of following Credits: 3

- THTR 105 - Dance History Cr. 3.
- THTR 355 - American Musical Theatre Cr. 3.

Total Credits: 18

Economics Minor

Program: Minor
School of Arts and Sciences

Neff Hall 366B ~ 260-481-6483

Economics is the study of the rational allocation of scarce resources. The major seeks to develop those critical skills that help you understand and solve problems in a wide variety of circumstances. These analytical abilities are valuable in the business world and many professional disciplines such as law and social work.

This program is offered in close cooperation with the Department of Economics in the Richard T. Doermer School of Business and Management Sciences, which offers all economics courses required for the major.

If you are pursuing a major other than economics, you may earn a minor in economics by completing the following credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW:

Program Requirements

- Credits in two additional ECON courses at the 300–400 level: 6
- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.

One of following Credits: 3

- ECON E321 - Intermediate Microeconomic Theory Cr. 3.
- ECON E322 - Intermediate Macroeconomic Theory Cr. 3.

Note

Programs can be designed to provide concentrations in several areas. A theory and quantitative concentration of 18 credits, including at least 9 resident credits, can be provided along with suitable study in mathematics to prepare students for graduate programs in economics and related disciplines.

Total Credits: 15

Electronics Minor

Program: Minor

Department of Electrical and Computer Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

The minor in electronics provides a fundamental technical background in analog and digital electronics to enable you to understand, analyze, and troubleshoot basic circuits. It also enables you to specialize and gain an in-depth knowledge of a particular area of electronics.

The ECET department also offers the Associate of Science and Bachelor of Science with a major in electrical engineering technology and a B.S. with a major in computer engineering technology. In addition, the department offers certificate programs in advanced microprocessors, computer-controlled systems, computer networking, electronic communications, and power electronics systems.

To earn a minor in electronics, you must complete the following courses and, unless you have already completed them, the 6 credits of mathematics prerequisites:

Fundamental Courses (12 credits)

- ECET 107 - Introduction to Circuit Analysis Cr. 4.
- ECET 111 - Digital Circuits Cr. 4.
- ECET 157 - Electronics Circuit Analysis Cr. 4.

Advanced Courses (8 credits in one of the three options)

Controls

- ECET 302 - Introduction to Control Systems Cr. 4.
- ECET 361 - Introduction to PLC and Pneumatic Systems Cr. 4.

Microprocessors

- ECET 205 - Introduction to Microprocessors Cr. 4.
- ECET 305 - Advanced Microprocessors Cr. 4.

Communications

- ECET 303 - Communications I Cr. 4.
- ECET 355 - Data Communications and Networking Cr. 4.

Total Credits: 20

English Minor

Program: Minor

Department of English and Linguistics

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

This program is available to all IPFW students who are not pursuing a major in English. You may earn a minor in English by completing the following 15 credits, including at least 8 credits earned as resident credit at IPFW, with a grade of C or better in each course:

Program Requirements

- Credits in American literature Credits: 3
- Credits in British literature before 1700 Credits: 3
- Credits in British literature after 1700 Credits: 3
- Additional credits in ENG and LING courses, W100–W299 excepted Credits: 6

Total Credits: 15

Film and Media Studies Minor

Program: Minor

School of Arts and Sciences

Classroom-Medical Building 153 ~ 260-481-6160

The minor in film and media studies provides a coherent introduction to the basics of film/media literacy. The program is designed to develop a critical understanding of the historical, theoretical, aesthetic, cultural and institutional contexts of film, television, and other electronic and digital mass media.

Film/media aesthetics Credits: 3

One of following:

- COM 251 - Introduction to the Electronic Mass Media Cr. 3.
- FILM K101 - Introduction to Film Cr. 3.

Film/media history Credits: 3

One of following:

- COM 250 - Mass Communication and Society Cr. 3.
- FILM K201 - Survey of Film History Cr. 3.

Upper-level requirements Credits: 6

Two of the following:

- COM 338 - Documentary and Experimental Film and Video Cr. 3.

- FILM K302 - Genre Study in Film Cr. 3.
- FILM K390 - The Film and Society Cr. 3.

Free elective Credits: 3

One of following:

- COM 422 - Women, Men, and Media Cr. 3.
- COM 436 - Script Writing Cr. 3.
- COM 491 - Special Topics in Communication Cr. 1-3.
(with appropriate topic)
- FREN F460 - French Fiction in Film Cr. 3
- POLS Y200 - Contemporary Political Topics Cr. 1-6,

Note

Additional courses may be approved and will be announced in the program brochure and in the Schedule of Classes each semester. At least 8 credits must be completed as resident credit at IPFW.

Total Credits: 15

Fine Arts Minor

Program: Minor

Department of Visual Arts/Fine Arts Program

School of Visual and Performing Arts

Visual Arts Building 117 ~ 260-481-6705 ~ www.ipfw.edu/vpa/

A minor in fine arts is designed for IPFW students outside the fine arts program. IPFW students can earn a minor in studio art by completing the following credits while maintaining a 2.0 GPA within the fine arts classes:

Required Classes Credits: 6

- Additional fine arts credits: 9
- Select three additional classes within the fine arts program.
 - At least two classes must be at the 200 level or above.
 - Two FINA art history classes can be used as part of the additional classes.
- FINA P121 - Drawing Fundamentals I-II Cr. 3.
- FINA P151 - Design Fundamentals I-II Cr. 3.

Total Credits: 15

Folklore Minor

Program: Minor

Department of English and Linguistics

School of Arts and Sciences

Classroom-Medical Building 145 ~ 260-481-6841

The minor in folklore familiarizes you with the international body of folklore as well as the theories, techniques, and history of folkloristics. The folklore minor is particularly appropriate for degree programs in anthropology, education, English, history, sociology, and other humanities and social sciences.

This program is available to all IPFW students except those pursuing the teacher-certification concentration with a major in English.

To earn a minor in folklore, you must complete the following 15 credits, including at least 8 credits earned as resident credit at IPFW, with a grade of C or better in each course:

Program Requirements

- Credits in additional courses, including at least two courses above the 200 level in folklore or in folklore-related courses in anthropology, classics, or other disciplines approved by the department Credits: 9

One of following Credits: 3

- FOLK F101 - Introduction to Folklore Cr. 3.
- FOLK F220 - Introduction to American Folklore Cr. 3.

One of following Credits: 3

- ANTH E462 - Anthropological Folklore Cr. 3.
- FOLK F251 - Folklore Methods and Theories Cr. 3.

Total Credits: 15

French Minor

Program: Minor

Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs

If you are pursuing a major other than French, you may earn a minor in French by completing the following 14 credits, with a grade of C or better in each course.

Study Abroad Both majors and nonmajors are encouraged to study abroad. For those who wish to study French, Indiana University administers and cosponsors an academic-year program in Aix-en-Provence; semester programs in Paris, Rennes, and Rouen; and summer programs in Paris and Quebec.

Program Requirements

- Credits in 300-level French language courses Credits: 6
- Credits in 300-level French literature courses Credits: 6
- FREN F213 - Second-Year French Composition Cr. 2.
(normally taken concurrently with F203–F204)

Total Credits: 14

French Teaching Minor

Program: Teaching Minor

Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs

If you are already licensed or qualified to be licensed in another area, you may earn a French teaching minor by completing the following 34 credits with a grade of C or better in each course.

Program Requirements

- Credits in 300-level French language courses Credits: 12
- Credits in 300-level French literature courses Credits: 3
- Credits in 400-level French and francophone civilization courses (F463 or F464) Credits: 3
- FREN F111 - Elementary French I Cr. 4.
- FREN F112 - Elementary French II Cr. 4.

- FREN F203 - Second-Year French I Cr. 3.
- FREN F204 - Second-Year French II Cr. 3.
- FREN F213 - Second-Year French Composition Cr. 2.
(normally taken concurrently with F203–F204)

Total Credits: 34

Geology Minor

Program: Minor

Department of Geosciences

School of Arts and Sciences

Science Building 230 ~ 260-481-6249 ~ www.geosci.ipfw.edu

If you are pursuing a major other than geology, you may earn a minor in geology by completing the following courses with a grade of C or better, with at least 11 resident credits taken at IPFW.

Program Requirements

- Two courses from GEOL/GEOG, 200 level or higher Credits: 6
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G211 - Introduction to Paleobiology Cr. 3.

One of following Credits: 3-4

- GEOL G100 - General Geology Cr. 3-5.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL L100 - General Geology Laboratory Cr. 1-2.

One of following Credits: 3

- GEOG G237 - Cartography and Geographic Information Cr. 3.
- GEOL G323 - Structural Geology Cr. 3.

One of following Credits: 3

- GEOL G300 - Environmental and Urban Geology Cr. 3.
- GEOL G334 - Principles of Sedimentology and Stratigraphy Cr. 3.

Total Credits: 18-19

German Minor

Program: Minor

Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

If you are pursuing a major other than German, you may earn a German minor by completing the following 15 credits, with a grade of C or better in each course:

Program Requirements

- Additional German credits at the 300–400 level Credits: 9
- GER G318 - German Language Skills I Cr. 3-5.
Credits: 3

One of following Credits: 3

- GER G362 - Deutsche Landeskunde Cr. 3.
- GER G363 - Deutsche Kulturgeschichte Cr. 3.

Total Credits: 15

German Teaching Minor

Program: Teaching Minor

Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

If you are already licensed or qualified to be licensed in another area, you may earn a German teaching minor by completing the following 32 credits with a grade of C or better in each course.

Program Requirements

- Additional German credits at the 300-400 level Credits: 9
- GER G111 - Elementary German I Cr. 4.
- GER G112 - Elementary German II Cr. 4.
- GER G203 - Second-Year German I Cr. 3.
- GER G204 - Second-Year German II Cr. 3.
- GER G318 - German Language Skills I Cr. 3-5.
Credits: 3
- GER G325 - German for Teachers Cr. 3.

One of following Credits: 3

- GER G362 - Deutsche Landeskunde Cr. 3.
- GER G363 - Deutsche Kulturgeschichte Cr. 3.

Total Credits: 32

History Minor

Program: Minor

Department of History

School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/hist

If you are pursuing a major other than history, you may earn a minor in history by completing the following credits with a grade of C or better in each course, including at least 9 credits as resident credit at IPFW:

Program Requirements

- Credits in 100-level courses (H105, H106, H113, H114, or equivalent honors courses) Credits: 9
- Credits above the 100 level, including courses in at least two of the following three areas: United States, Western Europe, and Other World areas Credits: 9

Total Credits: 18

Note

Included in the above credits must be at least one course dealing primarily with the period before 1800 (HIST A301, A302, A310, B351, B352, C388, C390, C393, E331, F341, H113, H201, H222, and occasional special offerings). HIST H232 may not be used to fulfill the Western European or Other World area requirements, but may be used for additional credits toward the major or minor.

Information Systems Minor

Program: Minor

Department of Computer Science

College of Engineering, Technology, and Computer Science

Kettler Hall 252 ~ 260-481-6803 ~ www.cs.ipfw.edu/

To earn a minor in information systems, you must complete the following courses:

Major Requirements

- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- CS 274 - Data Communications Cr. 3.
- CS 366 - Structured Analysis Techniques Cr. 3.

One of the following Credits: 3

- CS 114 - Introduction to Visual Basic Cr. 3.
- CS 203 - Advanced Visual Basic Cr. 3.

Total Credits: 20

Journalism Minor

Program: Minor

School of Arts and Sciences

Neff Hall 343 ~ 260-481-6685 ~ www.ipfw.edu/jour/

The IPFW Journalism Program offers two minors. A journalism minor provides underpinning for those interested in various media; the public relations minor described later in this section is more particularly defined and will appeal to those wishing to concentrate in corporate communications or advertising/public relations.

These minors are especially appropriate for media and public communication or English communication media majors. Those with a desire to write or report in some content area should consider a major in the area itself. Reporters need a content area such as political science or history; basic science students will discover that science writing is an especially valuable and challenging career goal.

Program Requirements

To earn the journalism minor, you must complete each course with a grade of C or better and must complete at least 8 credits as resident credit at IPFW.

One of following Credits: 3

- COM 250 - Mass Communication and Society Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.
- JOUR J110 - Foundations of Journalism and Mass Communication Cr. 3.

Two of the following Credits: 6

- JOUR J200 - Reporting, Writing and Editing I Cr. 3.
- JOUR J20I - Reporting, Writing, and Editing II Cr. 3.
- JOUR J310 - Editorial Practices Cr. 3.

Two of the following Credits: 6

- COM 334 - Journalism for the Electronic Mass Media Cr. 3.
- JOUR J210 - Visual Communication Cr. 3.
- JOUR J310 - Editorial Practices Cr. 3.
- JOUR J390 - Corporate Publications Cr. 1-3.

One of following Credits: 3

- COM 432 - Practicum in Television Cr. 2.
- COM 490 - Internship in Communication Cr. 1-6.
- ENG W398 - Internship in Writing Cr. 1-3.
- JOUR J492 - Media Internship Cr. 1-3.

Total Credits: 18

Labor Studies Minor

Division of Labor Studies

Program Offered: Minor

Kettler Hall G28 ~ 260-481-6831 ~ www.labor.iu.edu

If you are pursuing a major other than labor studies, you may earn a minor in labor studies by completing 15 credits, including 6 credits from the Labor Studies Core and 9 additional credits in labor studies. The additional 9 credits may come from other core courses, more-advanced courses, topics courses, internships, and directed labor studies.

Linguistics Minor

Program: Minor

Department of English and Linguistics

School of Arts and Sciences

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

Linguistics is the study of the characteristics of language. Accordingly, linguistics courses are valuable preparation for the study of such subjects as anthropology, communication, education, English, international languages, psychology, sociology, and speech and audiology.

This program is available to all IPFW students except those pursuing the language, teacher-certification, or communication media concentration with a major in English.

To earn a minor in linguistics, you must complete the following 15 credits, including at least 8 credits earned as resident credit at IPFW, with a grade of C or better in each course:

Program Requirements

- Any LING course numbered 300 or above except LING L303 Credits: 3

One of the following Credits: 3

- ANTH L200 - Language and Culture Cr. 3.
- ANTH L400 - Seminar in the Ethnography of Communication Cr. 3.
- LING L360 - Language in Society Cr. 3.

One of the following Credits: 3

- LING L103 - Introduction to the Study of Language Cr. 3.
- LING L303 - Introduction to Linguistic Analysis Cr. 3.

One of the following Credits: 3

Or, one course in the structure or linguistics of an international language.

- AUS 181 - First Course in American Sign Language Cr. 3.
- ENG G205 - Introduction to the English Language Cr. 3.
- ENG G206 - Introduction to the Study of Grammar Cr. 3.
- LING L490 - Linguistic Structures Cr. 3.

One of the following Credits: 3

Or one course above the 200 level in linguistics or a related discipline approved by the department.

- AUS 306 - Introduction to Phonetics Cr. 3.
- AUS 309 - Language Development Cr. 3.
- PHIL 450 - Symbolic Logic Cr. 3.
- PSY 426 - Language Development Cr. 3.
- PSY 526 - Psycholinguistics Cr. 3.

Total Credits: 15

Math and Physics Minor - Computer Engineering

Computer engineering students have enough math courses to qualify for a minor in mathematics. No additional math courses are needed. To be officially awarded a minor in math, a form must be filled and approved by the math department prior to graduation.

If you take PHYS 322 and PHYS 342, which are accepted as technical electives in all the engineering programs, then you will earn a minor in physics. Note that PHYS 342 can also be taken as an Area VI General Education course. To be officially awarded a minor in physics, a form must be filled and approved by the physics department prior to graduation.

Math and Physics Minor - Electrical Engineering

Electrical engineering students have enough math courses to qualify for a minor in mathematics. No additional math courses are needed. To be officially awarded a minor in math, a form must be filled and approved by the math department prior to graduation.

If you take PHYS 322 and PHYS 342, which are accepted as technical electives in all the engineering programs, then you will earn a minor in physics. Note that PHYS 342 can also be taken as an Area VI General Education course. To be officially awarded a minor in physics, a form must be filled and approved by the physics department prior to graduation.

Math and Physics Minor - Mechanical Engineering

Mechanical engineering students who take ME 373 Numerical Methods in Engineering, have enough math courses to qualify for a minor in mathematics. No additional math courses are needed. To be officially awarded a minor in math, a form must be filled and approved by the math department prior to graduation.

If you take PHYS 322 and PHYS 342, which are accepted as technical electives in all the engineering programs, then you will earn a minor in physics. Note that PHYS 342 can also be taken as an Area VI General Education course. To be officially awarded a minor in physics, a form must be filled and approved by the physics department prior to graduation.

Mathematics Minor

Program Offered: Minor Department of Mathematical Sciences School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

You may earn a minor in mathematics by completing at least six courses in mathematics and statistics. Your selection of courses should be appropriate for your major, and your program for a minor must be approved by the department's program review committee. Two calculus courses must be included. College algebra or trigonometry courses are excluded; one computer science course may be substituted for a mathematics or statistics course. You must have a grade of C or better in all courses included in your minor, and at least half of the credits must be earned as resident credit at IPFW.

Sample Programs for a Minor in Mathematics

Business and Management Majors

Computer Programming:

- CS 114 - Introduction to Visual Basic Cr. 3.
or
- CS 160 - Introduction to Computer Science I Cr. 4.

Calculus:

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
and
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
or
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
and

- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.

Finite or Discrete Math:

- MA 175 - Introductory Discrete Mathematics Cr. 3.
or
- MA 213 - Finite Mathematics I Cr. 3.
or
- MA 275 - Intermediate Discrete Math Cr. 3.

Modeling:

- MA 314 - Introduction to Mathematical Modeling Cr. 3.

Statistics:

- ECON E270 - Introduction to Statistical Theory in Economics and Business I Cr. 3.
or
- STAT 511 - Statistical Methods Cr. 3.

Computer Science Majors

Numerical Analysis:

- CS 384 - Numerical Analysis Cr. 3.

Calculus:

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
and
- MA 166 - Analytic Geometry and Calculus II Cr. 4.

Discrete Mathematics:

- MA 175 - Introductory Discrete Mathematics Cr. 3.
or
- MA 275 - Intermediate Discrete Math Cr. 3.

Linear Algebra:

- MA 351 - Elementary Linear Algebra Cr. 3.

Statistics:

- STAT 511 - Statistical Methods Cr. 3.
or
- STAT 516 - Basic Probability and Applications Cr. 3.

Liberal Arts Majors

Computer Programming:

- CS 114 - Introduction to Visual Basic Cr. 3.
or
- CS 160 - Introduction to Computer Science I Cr. 4.

Calculus:

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
and
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
or
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
and
- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.

Finite Mathematics:

- MA 213 - Finite Mathematics I Cr. 3.

Modeling:

- MA 314 - Introduction to Mathematical Modeling Cr. 3.

Statistics:

- STAT 125 - Communicating with Statistics Cr. 3.

Life Sciences Majors

Computer Programming:

- CS 114 - Introduction to Visual Basic Cr. 3.
or
- CS 160 - Introduction to Computer Science I Cr. 4.

Calculus:

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
and
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
or
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
and
- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.

Finite Mathematics:

- MA 213 - Finite Mathematics I Cr. 3.

Modeling:

- MA 314 - Introduction to Mathematical Modeling Cr. 3.

Statistics:

- STAT 240 - Statistical Methods for Biology Cr. 3.
- STAT 340 - Elementary Statistical Methods II Cr. 3.

Physical Sciences and Engineering Majors

Calculus:

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
and
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
and
- MA 261 - Multivariate Calculus Cr. 4.

Differential Equations:

- MA 363 - Differential Equations Cr. 3.

Advanced Calculus:

- MA 510 - Vector Calculus Cr. 3.

Complex Analysis or Linear Algebra:

- MA 351 - Elementary Linear Algebra Cr. 3.
or
- MA 511 - Linear Algebra with Applications Cr. 3.
or
- MA 525 - Introduction to Complex Analysis Cr. 3.

Technology Majors

Computer Programming:

- CS 114 - Introduction to Visual Basic Cr. 3.
or
- CS 160 - Introduction to Computer Science I Cr. 4.

Calculus:

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
and
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
or
- MA 227 - Calculus for Technology I Cr. 4.
and
- MA 228 - Calculus for Technology II Cr. 3.

Discrete or Finite Math:

- MA 175 - Introductory Discrete Mathematics Cr. 3.
or
- MA 213 - Finite Mathematics I Cr. 3.
or
- MA 275 - Intermediate Discrete Math Cr. 3.

Mathematics Elective:

- MA 321 - Applied Differential Equations Cr. 3.
or
- MA 351 - Elementary Linear Algebra Cr. 3.

Statistics:

- STAT 301 - Elementary Statistical Methods I Cr. 3.
or
- STAT 511 - Statistical Methods Cr. 3.

Media Production Minor

Program: Minor

Department of Communication School of Arts and Sciences

Neff Hall 230 ~ 260-481-6825 ~ www.ipfw.edu/comm/

This program is available to all IPFW students, including students with communication majors. To earn a minor in media production, you must complete at least 18 credits with a grade of C or better. You must also complete any prerequisites for the courses that are chosen and complete at least 9 credits as resident credit at IPFW.

Program Requirements

- COM 251 - Introduction to the Electronic Mass Media Cr. 3.

Credits from among the following: Credits: 15

- COM 490 Internship in Communication
- COM 331 - Audio Production Cr. 3.
- COM 332 - Television Studio Production Cr. 3.
- COM 333 - Film Production Cr. 3.
- COM 334 - Journalism for the Electronic Mass Media Cr. 3.
- COM 337 - Video Production/Editing Cr. 3.
- COM 338 - Documentary and Experimental Film and Video Cr. 3.
- COM 431 - Practicum in Radio Cr. 2.
(2 credits, may be repeated once)
- COM 432 - Practicum in Television Cr. 2.
(2 credits, may be repeated once)
- COM 436 - Script Writing Cr. 3.
- COM 537 - Educational/Instructional Television Cr. 3.
- FILM K101 - Introduction to Film Cr. 3.

- JOUR J200 - Reporting, Writing and Editing I Cr. 3.
- JOUR J210 - Visual Communication Cr. 3.
- PHYS 105 - Sound and Music Cr. 3.
- PHYS 125 - Light and Color Cr. 3.
- THTR 158 - Stagecraft Cr. 3.
- VCD N274 - Digital Imaging Cr. 3.
- VCD P151 - Design Fundamentals I Cr. 3.
- VCD P152 - Design Fundamentals II Cr. 3.

Total Credits: 18

Music Minor

Program: Minor

Department of Music

School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714 ~ www.ipfw.edu/vpa

A minor in music is designed for students who wish to enhance an interest in music while majoring in another area. To earn this minor, you must complete the courses listed below and earn a grade of C or better in each. Six credits must be at the 200 level or higher.

Program Requirements

19 credit hours selected from the following:

Music Theory (8 credits)

- MUS T113 - Music Theory I Cr. 3.
- MUS T114 - Music Theory II Cr. 3.
- MUS T115 - Sightseeing and Aural Perception I Cr. 1.
- MUS T116 - Sightseeing and Aural Perception II Cr. 1.

Music History and Literature (8 credits)

- MUS M201 - Music Literature I Cr. 2.
- MUS M202 - Music Literature II Cr. 2.

or

- MUS N101 - Music for the Listener - Honors Cr. 3.

Applied Study and/or Ensemble Credits: 4

Placement in ensembles and/or applied studios by audition only.

Electives Credits: 3-4

Students may work with an advisor in the Department of Music to select electives to fulfill the remaining credit hours.

Concert Attendance Credits: 0

Two semesters required

- MUS X095 - Performance Class Cr. 0.

Organizational Leadership and Supervision Minor

Program: Minor

Division of Organizational Leadership and Supervision

Neff Hall 288 ~ 260-481-6420 ~ www.ipfw.edu/ols

If you are pursuing a major other than organizational leadership and supervision, you may earn a minor in organizational leadership and supervision by completing the following courses with a grade of C or better in each course:

Program Requirements

- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 268 - Elements of Law Cr. 3.
- OLS 274 - Applied Leadership Cr. 3.
- OLS 375 - Training Methods Cr. 3.
- OLS 376 - Human Resources Issues Cr. 3.

Additional Credits in OLS: 3

Total Credits: 18

Philosophy Minor

Program: Minor

Department of Philosophy

School of Arts and Sciences

Neff Hall 130 ~ 260-481-6366

If you are pursuing a major other than philosophy, you may earn a minor in philosophy by completing the following credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW. Substitutions for these courses may be made with the approval of the department.

Program Requirements

- PHIL 303 - History of Modern Philosophy Cr. 3.

One of the following: Credits: 3

- PHIL 110 - Introduction to Philosophy Cr. 3.
- PHIL 111 - Ethics Cr. 3.

One of the following: Credits: 3

- PHIL 120 - Critical Thinking Cr. 3.
- PHIL 150 - Principles of Logic Cr. 3.

One of the following: Credits: 3

- PHIL 301 - History of Ancient Philosophy Cr. 3.
- PHIL 302 - History of Medieval Philosophy Cr. 3.
- PHIL 304 - 19th Century Philosophy Cr. 3.

Credits in a philosophy elective at the 400 level or above Credits: 3

(PHIL 493 and PHIL 590 count toward the minor only with the approval of the department.)

Total Credits: 15

Physics Minor

Program: Minor
Department of Physics
School of Arts and Sciences

Kettler Hall 126B ~ 260-481-6306 ~ www.ipfw.edu/physics/

If you are pursuing a major other than physics, you may earn a minor in physics by completing the following credits with a grade of C or better in each course and earning at least 9 credits as resident credit at IPFW:

Program Requirements

- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.

Credits in two of the following: Credits: 6-8

- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 330 - Intermediate Electricity and Magnetism Cr. 3.
- PHYS 331 - Electricity and Magnetism II Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 361 - Electronics for Scientists Cr. 4.

Total Credits: 16-18

Political Science Minor

Program: Minor
Department of Political Science
School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/pols

Program Requirements

If you are pursuing a major other than political science, you may earn a minor in political science by completing a minimum of 18 credits, including at least 9 resident credits, in the discipline with a grade of C or better in each course. A maximum of 6 credits may be earned in 100-level courses, and a minimum of 6 credits in courses at or above the 300 level (not including Y398

or Y482). Neither Y398 (Internship in Urban Institutions) nor Y482 (Practicum) may count for more than 6 of the 18 credits; these two courses together may not count for more than 9 of the 18 credits.

Professional Writing Minor

Program: Minor

Department of English and Linguistics

School of Arts and Sciences

Classroom-Medical Building 145 ~ 260-481-6841

This program is available to all IPFW students except those pursuing the language, teacher-certification, or writing concentration with a major in English.

Program Requirements

You may earn a minor in professional writing by completing the following 15 credits, including at least 8 credits completed as resident credit at IPFW, with a grade of C or better in each course.

Preparatory course work in writing (minimum of 3 credits)

One of the following: Credits: 3

- ENG W232 - Introduction to Business Writing Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- ENG W234 - Technical Report Writing Cr. 3.
- ENG W331 - Business and Administrative Writing Cr. 3.

Advanced course work in professional writing

(minimum of 9 credits)

- ENG W365 - Theories and Practices of Editing Cr. 3.
- ENG W367 - Writing for Multiple Media Cr. 3.
- ENG W398 - Internship in Writing Cr. 1-3.
- ENG W420 - Argumentative Writing Cr. 3.
- ENG W421 - Technical Writing Projects Cr. 1-3.
- ENG W425 - Research Methods for Professional Writers Cr. 3.
- ENG W462 - Studies in Rhetoric and Composition Cr. 3.
(Only topics specifically related to professional writing)

Elective (minimum of 3 credits) Credits: 3

Any course from the above two areas not used to fulfill the area distribution requirements. Any other course at the 200 level and above which supports your professional interest in writing. Examples include but are not limited to the following courses:

- **VCD 254** Principles of Graphic Design

This course must be approved by the English department chair.

- COM 251 - Introduction to the Electronic Mass Media Cr. 3.
- COM 324 - Introduction to Organizational Communication Cr. 3.
- ENG W350 - Advanced Expository Writing Cr. 3.
- ENG W405 - Writing Prose - Nonfiction Cr. 2-3.
- JOUR J200 - Reporting, Writing and Editing I Cr. 3.
- JOUR J310 - Editorial Practices Cr. 3.

Total Credits: 15

Psychology Minor

Program: Minor

Department of Psychology

School of Arts and Sciences

Neff Hall 388 ~ 260-481-6403 ~ www.ipfw.edu/psyc

If you are pursuing a major other than psychology, you may earn a minor in psychology by completing the following 15 credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW:

Program Requirements

- PSY 120 - Elementary Psychology Cr. 3.

One of the following: Credits: 3

- PSY 314 - Introduction to Learning Cr. 3.
- PSY 329 - Psychobiology II: Principles of Psychobiological Psychology Cr. 3.
- PSY 416 - Cognitive Psychology Cr. 3.

One of the following: Credits: 3

- PSY 235 - Child Psychology Cr. 3.
- PSY 240 - Introduction to Social Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.

One of the following: Credits: 3

- PSY 350 - Abnormal Psychology Cr. 3.
- PSY 420 - Introduction to Personality Theory Cr. 3.

Additional credits in a psychology course numbered 200 or above Credits: 3

Total Credits: 15

Public Affairs Minor

Program: Minor

Neff Hall 260 ~ 260-481-6351 ~ www.ipfw.edu/spea/

The minor in public affairs offers you the opportunity to become more knowledgeable in the field of public administration and the policy implications of the public sector. It is available to students who are enrolled in baccalaureate programs and can enhance career opportunities for liberal arts and other majors.

Program Requirements

Each minor requires 15 hours of specified courses with a 2.00 grade-point average, and none of the courses may be taken by correspondence through the Division of Continuing Studies.

SPEA majors may double-count only 6 of the required 15 credit hours in other SPEA major or minor requirements. Students may earn more than one minor from SPEA, but each minor must have at least 9 hours that are not satisfying other major or minor requirements.

- SPEA V170 - Introduction to Public Affairs Cr. 3.
C- or better required

One of the following: Credits: 3

- SPEA E162 - Environment and People Cr. 3.
- SPEA E272 - Introduction to Environmental Sciences Cr. 3.

Three of the following: Credits: 9

- SPEA E272 - Introduction to Environmental Sciences Cr. 3.
- SPEA E400 - Topics in Environmental Studies Cr. 3.

(may be repeated)

- SPEA V263 - Public Management Cr. 3.
- SPEA V366 - Managing Behavior in Public Organizations Cr. 3.
- SPEA V373 - Human Resources Management in the Public Sector Cr. 3.
- SPEA V376 - Law and Public Policy Cr. 3.
- SPEA V450 - Contemporary Issues in Public Affairs Cr. 1-3.

(may be repeated)

Total Credits: 15

Public Relations Minor

Program: Minor

School of Arts and Sciences

Neff Hall 343 ~ 260-481-6685 ~ www.ipfw.edu/jour/

The IPFW Journalism Program offers two minors that may be completed as part of a bachelor's program at IPFW. The publicrelations minor will appeal to those wishing to concentrate in the corporate communications or advertising/public relations industries; the journalism minor described earlier in this part provides basic underpinning for those interested in various media.

These minors are especially appropriate for media and public communication or English communication media majors.

Program Requirements

To earn the minor, you must complete each course with a grade of C or better, with at least 11 of the credits taken as resident credit at IPFW.

- JOUR J200 - Reporting, Writing and Editing I Cr. 3.

Two of the following: Credits: 6

- COM 251 - Introduction to the Electronic Mass Media Cr. 3.
- JOUR J210 - Visual Communication Cr. 3.
- JOUR J310 - Editorial Practices Cr. 3.
- JOUR J315 - Feature Writing Cr. 3.

Two of the following: Credits: 6

- COM 253 - Introduction to Public Relations Cr. 3.
- COM 332 - Television Studio Production Cr. 3.
- JOUR J280 - Sophomore Seminar in Journalism Cr. 3.

- JOUR J390 - Corporate Publications Cr. 1-3.
- JOUR J425 - Supervision of School Publications Cr. 3.
- JOUR J427 - Public Relations in a Democratic Society Cr. 3.

One of the following: Credits: 3

- COM 490 - Internship in Communication Cr. 1-6.
- ENG W398 - Internship in Writing Cr. 1-3.
- JOUR J492 - Media Internship Cr. 1-3.

Total Credits: 18

Religious Studies Minor

Program: Minor Department of Philosophy School of Arts and Sciences

Neff Hall 130 ~ 260-481-6366

Religious Studies is an interdisciplinary program housed in the department of philosophy. Students may earn a minor in religious studies by completing the following credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW. Substitutions for these courses may be made with the approval of the department.

Program Requirements

- One course at the 300 level or above with significant emphasis on the study of religion. Credits: 3
- Student must get course approval from the program administrator.
- PHIL 112 - Religion and Culture Cr. 3.
- PHIL 206 - Philosophy of Religion Cr. 3.
- PHIL 330 - Religions of the East Cr. 3.
- PHIL 331 - Religions of the West Cr. 3.

Total Credits: 15

Sociology Minor

Program: Minor
Department of Sociology and Anthropology
School of Arts and Sciences

Classroom-Medical Building 241 ~ 260-481-6842 ~ www.ipfw.edu/soca/soc.htm

Program Requirements

If you are pursuing a major other than sociology, you may earn a minor in sociology by completing 15 credits with a grade of C or better in each course, including at least 8 credits as resident credit at IPFW, a minimum of 9 credits at the 300 level or above, and no more than 3 credits of SOC S495 or directed study.

Spanish Minor

Program: Minor
Department of International Language and Culture Studies
School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

If you are pursuing a major other than Spanish, you may earn a minor in Spanish by completing the following credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW:

Program Requirements

- Additional 300- or 400-level Spanish civilization, language, or literature course Credits: 3
- SPAN S210 - Second-Year Spanish Composition Cr. 2-3.
(normally taken concurrently with S204)
- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.

One of the following 300-level literature courses Credits: 3

- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.

Total Credits: 14-15

Spanish Teaching Minor

Program: Teaching Minor

Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

If you are already licensed or qualified to be licensed in another area, you may earn a Spanish teaching minor by completing the following 37–38 credits with a grade of C or better in each course.

Program Requirements

- SPAN S275 - *Hispanic Culture and Conversation* Credits: 3
- SPAN S111 - Elementary Spanish I Cr. 4.
- SPAN S112 - Elementary Spanish II Cr. 4.
- SPAN S203 - Second-Year Spanish I Cr. 3.
- SPAN S204 - Second-Year Spanish II Cr. 3.
- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.
- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.
- SPAN S317 - Spanish Conversation and Diction Cr. 3.
- SPAN S488 - Spanish for Teachers Cr. 3.

One of the following culture/civilization courses: Credits: 3

- SPAN S413 - *Hispanic Culture in the U.S.*
- SPAN S411 - Spain: The Cultural Context Cr. 3.
- SPAN S412 - Latin-American Culture and Civilization Cr. 3.

Total Credits: 37-38

Theatre Minor

Program: Minor
Department of Theatre
School of Visual and Performing Arts

Williams Theatre 128 ~ 260-481-6551 ~ www.ipfw.edu/vpa

Program Requirements

You may earn a theatre minor by completing the following courses and earning a grade of C or better in each:

- THTR 134 - Fundamentals of Performance Cr. 3.
- THTR 138 - Acting I Cr. 3.
- THTR 168 - Theatre Production I Cr. 1-2.
- THTR 201 - Theatre Appreciation Cr. 3.
- THTR 261 - Introduction to Theatrical Design Cr. 3.
- THTR 284 - Textual Analysis Cr. 3.
- THTR 368 - Theatre Production II Cr. 1-2.

One of the following: Credits: 3

- THTR 470 - Theatre and Society I Cr. 3.
- THTR 471 - Theatre and Society II Cr. 3.

Theatre electives Credits: 3

Total Credits: 24

Women's Studies Minor

Program: Minor
School of Arts and Sciences

Classroom-Medical Building 272 ~ 260-481-6711

Women's studies is based on the premise that the study of women's experiences, concerns, social roles, and creativity is essential to our knowledge of humankind and society. Feminist scholarship and theory provide the knowledge and analytical tools necessary for a gender-balanced perspective on our world, both past and present. The Women's Studies Program affords you the opportunity to pursue feminist scholarship on women and gender through a variety of interdisciplinary courses.

See School of Arts and Sciences in Part 3 for further information.

If you are pursuing a major other than women's studies, you may earn a minor in women's studies by completing the following 15 credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW.

Program Requirements

- Credits from cross-listed courses in humanities or visual arts Credits: 3
- Credits from cross-listed courses offered in social science or natural science Credits: 3
- Additional credits in cross-listed or WOST-prefixed courses Credits: 6
- WOST W210 - Introduction to Women's Studies Cr. 3.

Total Credits: 15

Research Certificate

Anthropology Research Certificate

Program: Research Certificate in Anthropology Department of Sociology and Anthropology School of Arts and Sciences

Kettler Hall G11A ~ 260-481-6272 ~ www.ipfw.edu/soca/anthhome.htm

Courses in anthropology provide an understanding of the nature of cultures and help you assess various explanations of human behavior; they also assist in the development of analytical and critical abilities. The curriculum is structured to include studies in the history and theory of anthropology, in four anthropological fields (ethnology, archaeology, bioanthropology, and linguistics), in at least two different world ethnographic areas, and in topical specializations. The program helps you prepare for graduate study, for teaching, and for careers in which the understanding of various cultures is an asset.

Although a minor is not required for the B.A. with a major in anthropology, an outside concentration is recommended. Fifteen credits in history, political science, psychology, or sociology support the concentration.

Research Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

History, Philosophy, or Theory of the Discipline

- ANTH H445 - History and Theory of Anthropology Cr. 3.

Cognate Research Tools

Any STAT course or one of the following:

- POLS Y395 - Quantitative Political Analysis Cr. 3.
- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- SOC S351 - Social Statistics Cr. 3.

Research Methods and Supervised Individual Research Credits: 6

Individualized Research

- ANTH A495 - Individual Readings in Anthropology Cr. 1-4.
and/or

Research Methods

- ANTH P382 - Archaeological Research Design Cr. 3.
- ANTH P400 - Archaeological Methods and Techniques Cr. 2-4.

Total Credits: 15

Note

Each student must present his or her research in a professional forum approved by the anthropology faculty.

Chemistry Research Certificate

Program: Research Certificate **Department of Chemistry** **School of Arts and Sciences**

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

Research Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

History, Philosophy, or Theory of the Discipline

- PHIL 351 - Philosophy of Science Cr. 3.

Cognate Research Tools

- MA 261 - Multivariate Calculus Cr. 4.

Research Methods and Supervised Individual Research

- CHM 424 - Analytical Chemistry II Cr. 4.
- CHM 499 - Special Assignments Cr. 1-5
Credits: 3

Total Credits: 17

Mathematical Sciences Research Certificate

Program: Research Certificate

Department of Mathematical Sciences

School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

Research Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

History, Philosophy, or Theory of the Discipline

- MA 305 - Foundations of Higher Mathematics Cr. 3.

Cognate Research Tools

One of the following Credits: 3-4

- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- STAT 511 - Statistical Methods Cr. 3.

Research Methods and Supervised Individual Research

- One upper-level undergraduate or dual-level course in mathematics or statistics appropriate to the area of research (e.g., MA 453, MA 441, MA 575, STAT 517)Credits: 3
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 490 - Topics in Mathematics for Undergraduates Cr. 1-5.
Credits: 3

Total Credits: 18-19

Physics Research Certificate

Program: Research Certificate

Department of Physics

School of Arts and Sciences

Kettler Hall 126B ~ 260-481-6306 ~ www.ipfw.edu/physics/

Research Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

History, Philosophy, or Theory of the Discipline

- PHYS 342 - Modern Physics Cr. 3.

Cognate Research Tools

One of the following Credits: 4

- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.

Research Methods and Supervised Individual Research

- PHYS 343 - Modern Physics Laboratory Cr. 1.

One of the following Credits: 3-4

- PHYS 322 - Optics Cr. 3.
- PHYS 325 - Scientific Computing Cr. 3.
- PHYS 361 - Electronics for Scientists Cr. 4.
- PHYS 405 - Atomic and Molecular Physics Cr. 3.
- PHYS 520 - Mathematical Physics Cr. 3.

Credits in the following: 6

- PHYS 270 - Special Topics in Physics Cr. 1-5.
- PHYS 470 - Special Topics in Physics Cr. 1-5.

Total Credits: 20-21

Psychology Research Certificate

Program: Research Certificate

Department of Psychology

School of Arts and Sciences

Neff Hall 388 ~ 260-481-6403 ~ www.ipfw.edu/psyc

The research certificate is described under Arts and Sciences in Part 3 of this

Research Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

History, Philosophy, or Theory of the Discipline

- PSY 540 - History of Psychology Cr. 3.

Cognate Research Tools

- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.

Research Methods and Supervised Individual Research

- PSY 203 - Introduction to Research Methods in Psychology Cr. 3.
- PSY 496 - Readings and Research in Psychology Cr. 1-6.
(as a research assistant to a faculty member, with the subtitle RES ASST)
Credits: 3
- PSY 499 - Honors Thesis in Psychology Cr. 3.

Total Credits: 18

Teacher Certification

Chemistry Teaching Minor

Program: Minor

Department of Chemistry

School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

If you are already licensed or qualified to be licensed in another area, you may earn a chemistry teaching minor by completing the following 32 credits with a grade of C or better in each course.

Program Requirements

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 218 - Introduction to Inorganic Chemistry Cr. 3.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.

- CHM 371 - Physical Chemistry Cr. 3.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

Total Credit: 32

Earth and Space Science Teaching Minor

If you are already licensed or qualified to be licensed in another area, you may earn an earth and space science teaching minor by completing the following 27–28 credits with a grade of C or better in each course.

Program Requirements

- AST A100 - The Solar System Cr. 3.
- CHM 115 - General Chemistry Cr. 4.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- GEOL G221 - Introductory Mineralogy Cr. 3-4.
Credits: 3
- GEOL G222 - Introduction to Petrology Cr. 3.
- GEOL G420 - Regional Geology Field Trip Cr. 1-2.
Credits: 2

One of following Credits: 3-4

- GEOG G107 - Physical Systems of the Environment Cr. 3.
with GEOL L100 (4 credits)
- GEOL G100 - General Geology Cr. 3-5.
with L100 (4 credits)
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.

One of following Credits: 3

- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G211 - Introduction to Paleobiology Cr. 3.

One of following Credits: 3

- GEOL G315 - Environmental Conservation
- GEOL G300 - Environmental and Urban Geology Cr. 3.
- GEOL G415 - Geomorphology Cr. 3-4.

Total Credits: 27-28

Economics Teacher Certification

Program: Teacher Certification

School of Arts and Sciences

Neff Hall 366B ~ 260-481-6483

Economics is the study of the rational allocation of scarce resources. The major seeks to develop those critical skills that help you understand and solve problems in a wide variety of circumstances. These analytical abilities are valuable in the business world and many professional disciplines such as law and social work.

This program is offered in close cooperation with the Department of Economics in the Richard T. Doermer School of Business and Management Sciences, which offers all economics courses required for the major.

You may be certified as a teacher of social studies after fulfilling all requirements for the B.A. with a major in economics and all requirements for teacher certification. Full information on teacher certification requirements is available from the School of Education.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUCK 201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

Geology Teacher Certification

Program: Teacher Certification

Department of Geosciences

School of Arts and Sciences

Science Building 230 ~ 260-481-6249 ~ www.geosci.ipfw.edu

You may be certified as a teacher of earth and space science after fulfilling the requirements for a B.A. with a major in geology or a B.S. in geology (ENG W233 must be taken as your writing requirement) and the requirements for teacher certification listed below.

The School of Education requires that you first complete EDUA F300, EDUC W200/M101, and EDUC K201 before you are permitted to take professional education courses. Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

To be eligible to apply for teacher licensure, you must earn a GPA of 2.00 or higher in each general education area. You should work closely with your advisor to ensure completion of general education requirements for teacher licensing. You must also earn

a cumulative GPA of 2.50 or higher in your major area and the professional education courses. Each professional education course must be completed with a grade of C or better.

Additional information on teacher-certification requirements is available from the School of Education.

Professional Education

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- AST A100 - The Solar System Cr. 3.
- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M401 - Laboratory/Field Experience Cr.0-3.
Credits: 0
- EDUC M449 - Methods of Teaching Science in the Secondary Schools Cr. 3.
Credits: 3
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
Credits: 10
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

And Select:

Credits: 3

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC P250 - General Educational Psychology Cr. 1-4.

And Select:

Credits: 3

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

History Teacher Certification

Program: Teacher Certification

Department of History

School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/hist

You may be certified as a teacher of social studies after fulfilling all requirements for the B.A. with a major in history and all requirements for teacher certification. Full information on teacher certification requirements is available from the School of Education.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUC K201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

Language Arts Teaching Minor

Program: Minor

Department of English and Linguistics

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

If you are already licensed or qualified to be licensed in another area, you may earn a language arts teaching minor by completing the following 24 credits with a grade of C or better in each course.

Program Requirements

- One elective 300-level course in British literature Credits: 3
- One elective 300-level course in American literature Credits: 3

One of the following Credits: 3

- COM 250 - Mass Communication and Society Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.

One of the following Credits: 3

- EDUC E340 - Methods of Teaching Reading I Cr. 2-3.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
- ENG W400 - Issues in Teaching Writing Cr. 3.

One of the following Credits: 3

- One course in multicultural literature
- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.

One of the following Credits: 3

- ENG L202 - Literary Interpretation Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

One of the following Credits: 3

- ENG G205 - Introduction to the English Language Cr. 3.
- ENG G206 - Introduction to the Study of Grammar Cr. 3.
- ENG L103 - Introduction to Drama Cr. 3.

One of the following Credits: 3

- ENG L390 - Children's Literature Cr. 3.
- ENG L391 - Literature for Young Adults Cr. 3.

Total Credits: 24

Life Science Teaching Minor

Program: Minor

Department of Biology

School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

If you are already licensed or qualified to be licensed in another area, you may earn a life science teaching minor by completing the following 29 credits with a grade of C or better in each course.

Program Requirements

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.

Total Credit: 29

Mathematics Teacher Certification Minor

Program: Teacher Certification Minor Department of Mathematical Sciences School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

If you are already licensed or qualified to be licensed in another area, you may earn a mathematics teaching minor by completing the following 26–27 credits with a grade of C or better in each course.

Program Requirements

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 560 - Fundamental Concepts of Geometry Cr. 3.

One of the following: Credits: 3-4

- CS 114 - Introduction to Visual Basic Cr. 3.
- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 453 - Elements of Algebra Cr. 3.
- MA 575 - Graph Theory Cr. 3.

One of the following: Credits: 3

- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Total Credits: 26-27

Mild Intervention Certification

In addition to the major in elementary education, students may earn certification in mild intervention. (This certification qualifies a teacher to teach students with mild and emotional disabilities in elementary or secondary school settings, depending on your current license.) Each course in the Mild Intervention Certification must be completed with a grade of C or better.

Program Requirements

- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC K370 - Introduction to Learning Disabilities Cr. 3.
- EDUC K453 - Management of Academic and Social Behavior Cr. 3.
- EDUC K465 - Service Delivery Systems and Consultation Strategies Cr. 3.
- EDUC M470 - Practicum Cr. 3-8.
(Final Course)

And Select:

- EDUC K352 - Education of Children with Learning Problems (LD and EMR) Cr. 3.
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.

And Select:

- EDUC K371 - Assessment and Individualized Instruction in Reading and Mathematics Cr. 3.
- EDUC M301 - Laboratory/Field Experience Cr. 0-3.

Total Credits: 26

Physical Science Teaching Certification - Chemistry

To earn the physical science teaching certification, you must fulfill all requirements for the B.S. with a major in chemistry or physics, and you must complete ENG W233 as your writing requirement and satisfactorily complete the courses listed below.

The School of Education requires that you first complete EDUA F300, EDUC W200/M101, and EDUC K201 before you are permitted to take professional education courses. Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

To be eligible to apply for teacher licensure, you must earn a GPA of 2.00 or higher in each general education area. You should work closely with your advisor to ensure completion of general education requirements for teacher licensing. You must also earn a cumulative GPA of 2.50 or higher in your major area and the professional education courses. Each professional education course must be completed with a grade of C or better.

School of Education Requirements

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC M401 - Laboratory/Field Experience Cr.0-3.
- EDUC M449 - Methods of Teaching Science in the Secondary Schools Cr. 3.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.

And Select:

Credits: 3

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC P250 - General Educational Psychology Cr. 1-4.

And Select:

Credits: 3

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

Additional Credits: 87

Physical Science Teaching Certification Minor

Program: Minor

Department of Chemistry

School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

If you are already licensed or qualified to be licensed in another area, you may earn a physical science teaching minor by completing the following 56 credits with a grade of C or better in each course.

Program Requirements

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- PHYS 152 - Mechanics Cr. 5.

- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.

Total Credits: 56

Physical Science Teaching Certification-Physics

Students who wish to earn physical science teaching certification should complete the requirements for the B.S. with a major in physics teaching with the following adjustments. In addition, the Praxis II Specialty Area Exam in both physics and chemistry must be completed before or during the student teaching semester, normally in your senior year.

Core and Concentration (Major) Courses

- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 330 - Intermediate Electricity and Magnetism Cr. 3.
- PHYS 331 - Electricity and Magnetism II Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.
- PHYS 345 - Optics Laboratory I Cr. 1.
- PHYS 346 - Advanced Laboratory I Cr. 1.
- PHYS 515 - Thermal and Statistical Physics Cr. 3.
- PHYS 550 - Introduction to Quantum Mechanics Cr. 3.

Supporting Courses

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- CHM 321 - Analytical Chemistry I Cr. 4.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.

Total Credits: 140

Secondary Education Teaching Minor

Program: Minor

Department of Educational Studies

School of Education

Neff Hall 250 ~ 260-481-6441

In addition to the content area teaching majors, students can also obtain a teaching minor in one or more of the following areas:

Chemistry Teaching Minor (35 credits)

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 218 - Introduction to Inorganic Chemistry Cr. 3.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- CHM 371 - Physical Chemistry Cr. 3.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

Earth and Space Science Teaching Minor (27–28 credits)

- AST A100 - The Solar System Cr. 3.
- CHM 115 - General Chemistry Cr. 4.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- GEOL G221 - Introductory Mineralogy Cr. 3-4.
Credits: 3
- GEOL G222 - Introduction to Petrology Cr. 3.
- GEOL G420 - Regional Geology Field Trip Cr. 1-2.
Credits: 2

One of the following: Credits: 3-4

- GEOG G107 - Physical Systems of the Environment Cr. 3.
- GEOL G100 - General Geology Cr. 3-5.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL L100 - General Geology Laboratory Cr. 1-2.

One of the following: Credits: 3

- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G211 - Introduction to Paleobiology Cr. 3.

One of the following: Credits: 3

- GEOG G315 - Environmental Conservation Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.
- GEOL G415 - Geomorphology Cr. 3-4.

French Teaching Minor (34 credits)

- FREN F3xx-4xx - Language elective (300–400 level) Credits: 3
- FREN F3xx-4xx - Literature elective (300–400 level) Credits: 3
- FREN F216 - Second-Year French Conversation Credits: 2
- FREN F111 - Elementary French I Cr. 4.
- FREN F112 - Elementary French II Cr. 4.
- FREN F203 - Second-Year French I Cr. 3.
- FREN F204 - Second-Year French II Cr. 3.
- FREN F213 - Second-Year French Composition Cr. 2.
- FREN F317 - French Language Skills I Cr. 3.
- FREN F318 - French Language Skills II Cr. 3.
- FREN F325 - Oral French for Teachers Cr. 3-8.

One of the following: Credits: 3

- FREN F463 - Civilisation Française I Cr. 3.
- FREN F464 - Civilisation Française II Cr. 3.

German Teaching Minor (32 credits)

- GER G3xx-4xx Electives (300–400 level) Credits: 9
- GER G111 - Elementary German I Cr. 4.
- GER G112 - Elementary German II Cr. 4.
- GER G203 - Second-Year German I Cr. 3.

- GER G204 - Second-Year German II Cr. 3.
- GER G318 - German Language Skills I Cr. 3-5.
- GER G325 - German for Teachers Cr. 3.

One of the following: Credits: 3

- GER G3xx-4xxElectives (300–400 level) Credits: 9
- GER G362 - Deutsche Landeskunde Cr. 3.
- GER G363 - Deutsche Kulturgeschichte Cr. 3.

Language Arts (English) Teaching Minor (24 credits)

- British literature elective Credits: 3
- American literature elective Credits: 3
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
- ENG L391 - Literature for Young Adults Cr. 3.

One of the following: Credits: 3

- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.

One of the following: Credits: 3

- ENG L202 - Literary Interpretation Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

One of the following: Credits: 3

- COM 250 - Mass Communication and Society Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.

One of the following: Credits: 3

- ENG G205 - Introduction to the English Language Cr. 3.
- ENG G206 - Introduction to the Study of Grammar Cr. 3.
- LING L103 - Introduction to the Study of Language Cr. 3.

Life Science (Biology) Teaching Minor (29 credits)

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.

Mathematics Teaching Minor (32 credits)

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 560 - Fundamental Concepts of Geometry Cr. 3.

One of the following: Credits: 3

- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 453 - Elements of Algebra Cr. 3.
- MA 575 - Graph Theory Cr. 3.

One of the following: Credits: 3

- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Physical Science Teaching Minor (62 credits)

(This subject area can be used as a minor teaching area or as a certification-only teaching major.)

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.

Physics Teaching Minor (46 credits)

- MA 262 - Linear Algebra and Differential Equations Credits: 4
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 330 - Intermediate Electricity and Magnetism Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.

Spanish Teaching Minor (37 credits)

- SPAN S111 - Elementary Spanish I Cr. 4.
- SPAN S112 - Elementary Spanish II Cr. 4.
- SPAN S203 - Second-Year Spanish I Cr. 3.
- SPAN S204 - Second-Year Spanish II Cr. 3.
- SPAN S210 - Second-Year Spanish Composition Cr. 2-3.
- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.
- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.
- SPAN S317 - Spanish Conversation and Diction Cr. 3.
- SPAN S488 - Spanish for Teachers Cr. 3.

One of the following: Credits: 3

- SPAN S411 - Spain: The Cultural Context Cr. 3.
- SPAN S412 - Latin-American Culture and Civilization Cr. 3.

Theatre Teaching Minor (24 credits)

- THTR electives Credits: 6
- THTR 134 - Fundamentals of Performance Cr. 3.
- THTR 138 - Acting I Cr. 3.
- THTR 201 - Theatre Appreciation Cr. 3.
- THTR 261 - Introduction to Theatrical Design Cr. 3.
- THTR 284 - Textual Analysis Cr. 3.

One of the following: Credits: 3

- THTR 470 - Theatre and Society I Cr. 3.
- THTR 471 - Theatre and Society II Cr. 3.

Theatre Teaching Minor

Program: Minor

Department of Theatre

School of Visual and Performing Arts

Williams Theatre 128 ~ 260-481-6551 ~ www.ipfw.edu/vpa

A theatre-teaching minor may be earned by completing the following courses and earning a grade of C or better in each required theatre course:

Program Requirements

- Additional theatre course Credits: 3
- THTR 134 - Fundamentals of Performance Cr. 3.
- THTR 138 - Acting I Cr. 3.
- THTR 158 - Stagecraft Cr. 3.
- THTR 201 - Theatre Appreciation Cr. 3.
- THTR 261 - Introduction to Theatrical Design Cr. 3.
- THTR 440 - Beginning Directing Cr. 3.

One of the following:

- THTR 470 - Theatre and Society I Cr. 3.
- THTR 471 - Theatre and Society II Cr. 3.

Total Credits: 24

Transfer Program

Agriculture (A.S.)

Program: Transfer Program School of Arts and Sciences

Science Building G56 ~ 260-481-6304

At IPFW, you can complete the first two years of most of the 47 Bachelor of Science programs in agriculture and forestry, the two-year preveterinary program, up to two semesters of the forestry and natural resources programs, two semesters of the preagricultural and biological engineering program, and three semesters of an associate degree program in agriculture. All agriculture degrees must be completed at the West Lafayette campus of Purdue University. The forestry and natural resources and preveterinary programs are listed alphabetically later in this part of the *Bulletin*.

All degree programs in agriculture provide balanced curricula in computer science, mathematics, physical sciences, biological sciences, communication, social sciences, humanities, international understanding or emphasis, and business, plus technical preparation in the selected area of specialization. These programs recognize the need for graduates who are prepared to function effectively in the highly technical world of modern agriculture.

The Purdue University School of Agriculture is one of the nation's highest-ranked and most-prestigious institutions of agricultural teaching, research, extension, and international programs. The West Lafayette faculty annually prepares more than 2,000 undergraduate and 500 graduate students for careers in the world's food production and distribution systems.

The IPFW agriculture program coordinator will assist you with processing intercampus transfer forms and with arranging affiliation with the appropriate West Lafayette counseling coordinator for the degree program selected. For a listing of degree programs available and additional details about all programs, you should obtain a current Bulletin of the School of Agriculture from the IPFW agriculture dean's program coordinator.

The partial requirements stated below can be completed at IPFW and apply in most B.S. programs in agriculture. Because of professional objectives and accreditation requirements, significant variations exist in some programs such as agricultural and biological engineering, biochemistry, forestry and natural resources, and landscape architecture. Students selecting these options may be able to complete only one or two semesters at IPFW.

It is highly recommended that you keep in contact with the agriculture program coordinator to remain up to date on any changes in the course requirements and to make sure that the requirements of your particular major are being met.

The associate degree with a major in agriculture, which requires at least one semester of full-time study at the West Lafayette campus, helps students who must withdraw before they can finish a Bachelor of Science. You may take, at most, three semesters at IPFW. You may begin with the general course work for agriculture, preforestry, or preveterinary medicine. Within the program, you must complete a specialization in one of the following areas: agricultural economics, agricultural systems

management, agronomy, animal sciences, general agriculture, or horticulture. You work out the details of your career (final) semester with the West Lafayette advisor for the specialization you select; it is desirable to establish contact with this advisor before your final semester at IPFW.

To receive the associate degree, you must:

1. Complete at least half the credits for the Bachelor of Science for your declared option (64–65 credits).
2. Earn a minimum graduation GPA of 2.00 or higher.
3. Limit the number of elective credits taken under the pass/not-pass option to 12.
4. Meet the minimum requirements listed below. For course selection at IPFW and assistance with transferring to the West Lafayette campus, you should see the agriculture program coordinator at IPFW.

The assumption is that you will begin with courses that apply to the requirements for general agriculture, preforestry, or preveterinary medicine described in this Bulletin, but if you later choose the A.S. alternative, you must meet the following minimum requirements:

Mathematics and Basic Sciences

- Credits in calculus or statistics Credits: 3
- Credits in other mathematics and basic sciences Credits: 12

Written and Oral Communication

- Credits in written communication Credits: 6
- Credits in oral communication Credits: 3

Broadening Electives

- Credits in economics Credits: 3
- Credits in humanities or social sciences Credits: 3

Departmental Requirements and Electives

- Credits in departmental requirements and electives, at least 18 of which must be earned in School of Agriculture courses Credits: 35

Total Credits: 65

Consumer and Family Sciences

Program: Transfer Program School of Health Sciences

Neff Hall 330 ~ 260-481-6562

At IPFW, you may complete two years toward the Bachelor of Science offered by the School of Consumer and Family Sciences at the West Lafayette campus of Purdue University. Majors are in child development and family studies, dietetics, and retail management.

These degree programs must be completed at West Lafayette. IPFW also offers a B.S. and an A.S. in hospitality areas (see description later in this section).

The details of your general-education requirements and the courses in your field of specialization are determined by your selection of an option. For this information, you should obtain the Bulletin of the School of Consumer and Family Sciences. You must also consult the IPFW coordinator of consumer and family sciences to select the appropriate courses for your B.S. option.

At IPFW, you may complete the following courses required for all options:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
(or equivalent)
- ENG W233 - Intermediate Expository Writing Cr. 3.

Area II—Natural and Physical Sciences

For most options, the following IPFW courses are recommended:

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Area III—The Individual, Culture, and Society Credits: 9

See the Consumer and Family Sciences Bulletin and the CFS coordinator for requirements for your option. For most options, the following IPFW course is recommended:

- ECON E201 - Introduction to Microeconomics Cr. 3.

Note

The option you select may require additional credits in any of the three areas. You may fulfill many of the general-education requirements in all options at IPFW.

Total Credits: 27

Cytotechnology

Program: Transfer Program

School of Health Sciences

Neff Hall 142 ~ 260-481-6967

At IPFW, you may complete three years towards the Bachelor of Science in cytotechnology. You must be admitted to the clinical program at Indiana University–Purdue University Indianapolis to complete the degree. The details of your prerequisite course work should be discussed with IPFW health professors or the health sciences advisor. You may also consult an advisor at the IUPUI campus to discuss the degree by calling 317-278-4752 or by e-mail at askhpp@iupui.edu. The most current program information is found at <http://msa.iusm.iu.edu/hpp/>.

An interview plus a minimum cumulative GPA of 2.5, a minimum GPA of 2.0 in required prerequisites, and a minimum GPA of 2.5 in biology courses are required for admission to the IUPUI clinical program. Biology credits earned more than seven years prior to application must be updated by taking 3 additional credit hours related to cell biology within a period of time not to exceed 12 months prior to admission. Remedial courses will not fulfill prerequisite hours. Completion of courses does not guarantee admission to the IUPUI program. Admission to the professional program is competitive; therefore, completion of prerequisite courses does not guarantee admission to the IUPUI program.

At IPFW you may complete the following courses:

Program Requirements

- Credits in humanities: 3
- BIOL 119 - Principles of Structure and Function Cr. 4.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

One of the following Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.

One of the following combinations Credits: 6–8

- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- BIOL 334 - Clinical Pathophysiology Cr. 4.
- BIOL 381 - Cell Biology Cr. 3.
- BIOL 437 - General Microbiology Cr. 4.
- BIOL 537 - Immunobiology Cr. 3.

Credits from at least 3 upper-level biology courses: 9–11

Students must earn a total of 25 credits in biology (see advisor)

Other required courses:

- CHM 115L - General Chemistry Lab
- CHM 116L - General Chemistry Lab
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.

Electives Credits: 38–42

Total Credits: 90

Forestry and Natural Resources

Program: Transfer Program School of Arts and Sciences

Science Building G56 ~ 260-481-6304

Admission

At IPFW you may complete credits toward one of the five majors — fisheries and aquatic sciences, forestry, natural resources, wildlife, and wood products manufacturing technology — offered by the Department of Forestry and Natural Resources. You must transfer to Purdue University West Lafayette campus for second-year courses in order to have prerequisites for the summer practicum between the sophomore and junior years. You are encouraged to contact a West Lafayette advisor to confirm course selections. The following courses encompass most of the first-year requirements of these majors.

Program Requirements

- Credits in one of the following humanities and social sciences: anthropology; economics; fine arts, music, and theatre (history and appreciation only); foreign language; history; literature; philosophy; political science; psychology; sociology; speech communication Credits: 6
- AGRY 255 - Soil Science Credits: 3
- AGR 101 - Introduction to Agriculture and Purdue Cr. 1.
- BIOL 108 - Biology of Plants Cr. 4.
- BIOL 109 - Biology of Animals Cr. 4.

- CHM 111 - General Chemistry Cr. 3.
- CHM 112 - General Chemistry Cr. 3.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.
- FNR 103 - Introduction to Environmental Conservation Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Credits in English composition Credits: 6

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Total Credits: 48

Health Information Administration

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

The Health Information Administration Program is offered in the IUPUI School of Informatics. The program length is four years and requires 62 semester hours of prerequisite course work plus two years (60 credit hours) of professional course work. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program. Distance learning and classroom options are both available for the third and fourth year or professional part of the program. Remedial course work will not count toward the 62 required prerequisite credit hours. A minimum 2.5 cumulative grade-point average is required at the time of program application and must be maintained. Grades for remedial courses are included in the cumulative grade-point average. All qualified applicants will be interviewed prior to admission. Please consult the IPFW health professions advisor for prerequisite course work information. Further information about the IUPUI program is available at <http://informatics.iupui.edu/academics/health/>.

Program Requirements

- OLS 236 - Elements of Law Credits: 3
- BUS W100 - Principles of Business Administration Cr. 3.
- CS 106 - Introduction to Computers Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
or higher-level math course

Choose one of the following Credits: 3

- ENG W232 - Introduction to Business Writing Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- ENG W234 - Technical Report Writing Cr. 3.
- ENG W331 - Business and Administrative Writing Cr. 3.
(P: W233)

One of the following combinations Credits: 6-8

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 215 - Basic Human Anatomy Cr. 4.
- BIOL 216 - Basic Mammalian Physiology Cr. 4.
- NUR 106 - Medical Terminology Cr. 3.

Choose 3 credits from the following: 3

- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- SPEA K300 - Statistical Techniques Cr. 3.
- STAT 240 - Statistical Methods for Biology Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Choose 3 credits from the following: 3

- PHIL 111 - Ethics Cr. 3.
- PHIL 312 - Medical Ethics Cr. 3.
- PHIL 326 - Business Ethics Cr. 3.

Humanities Areas III, IV, and V

- BUS A201 - Principles of Financial Accounting Cr. 3.

Choose 3 credits from the following: 3

- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 274 - Applied Leadership Cr. 3.
- SPEA H371 - Human Resource Management in Healthcare Facilities Cr. 3.

Choose 3 credits from the following: 3

- CS 306 - Computers in Society Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.
- SOC S163 - Social Problems Cr. 3.

Total Credits: 62

Journalism Transfer Program

Program: Transfer Program School of Arts and Sciences

Neff Hall 343 ~ 260-481-6685 ~ www.ipfw.edu/jour/

At IPFW, you may complete two years of course work toward the Bachelor of Arts offered by the Indiana University School of Journalism at both the Bloomington and Indianapolis campuses. While at IPFW, you may take courses in the fundamental-skills requirements in writing, mathematics, and foreign language; distribution requirements in arts and humanities, natural and mathematical sciences, and social and behavioral sciences; and a maximum of 12 credits in journalism core courses or electives.

Program Requirements

- JOUR J200 - Reporting, Writing and Editing I Cr. 3.
- JOUR J210 - Visual Communication Cr. 3.
- JOUR J300 - Communications Law Cr. 3.

One of following Credits: 3

- JOUR C200 - Mass Communications Cr. 3.
- JOUR J110 - Foundations of Journalism and Mass Communication Cr. 3.

Total Credits: 12

Notes

Internships and special course approvals are arranged through the IPFW journalism coordinator. Scholarships are available for declared journalism majors for the freshman year at IPFW and for subsequent years throughout the IU system. Applications are available in January.

For further information about journalism requirements and opportunities at IPFW, consult the *Bulletin* of the IU School of Journalism and course descriptions appearing in this *Bulletin*.

Medical Imaging Technology

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

An educational program in medical imaging technology is located on the Indiana University–Purdue University Indianapolis campus. This program is an advanced program for the registered radiographer (ARRT). You may also earn the A.S. in radiography at IPFW (see Radiography) and then transfer to IUPUI to complete the B.S. in medical imaging technology.

A minimum cumulative GPA of 2.5 for all college courses taken, including remedial courses and courses that do not meet prerequisite requirements, is considered when calculating the minimum cumulative GPA. A minimum GPA of 2.3 for all math, biological, and physical science course work taken, including remedial courses and courses that do not meet prerequisite requirements, is considered when calculating the minimum life and physical science grade-point average: 2.7 for Radiologic Tech courses and 3.0 for clinically related courses are required for admission to the IUPUI program. A written essay and evidence of registration or eligibility for registration in radiography (ARRT) required at time of application. Completion of requirements does not guarantee admission into the program. Competitive grade-point averages are generally higher than the stated minimums. Additional program information may be found at <http://msa.iusm.iu.edu/hpp/>.

Program Requirements

Physical and Biological Sciences (must have a minimum of 16 total credit hours)

- Electives in humanities, sociology, or psychology Credits: 3
(see advisor)
- Elective in sociology or psychology Credits: 3
- CHM 115 - General Chemistry Cr. 4.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- NUR 106 - Medical Terminology Cr. 3.
- PHYS 220 - General Physics Cr. 4.

Radiography Courses Credits: 40-60

Total Credits: 82

Nuclear Medicine

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

At IPFW you may complete two years toward the Bachelor of Science in nuclear medicine offered by the Department of Radiology at the Indianapolis campus of the Indiana University School of Medicine. Observation in a nuclear medicine facility is required prior to interview. Qualified applicants must participate in an interview. Completion of these courses does not guarantee admission to the IUPUI clinical program. All college courses taken including remedial courses and courses that do not meet prerequisite requirements are considered when calculating the cumulative GPA and the life and physical science GPA. Applicants to the clinical program must have a minimum of 20 total credit hours from the physical and biological sciences (see advisor). You must have a minimum cumulative GPA of 2.50 and a math/science GPA of 2.50 to be admitted to the Indianapolis clinical program. The details of your general-education requirements should be discussed with an IPFW advisor. Further details about the IUPUI program may be found at <http://msa.ium.iu.edu/hpp/>.

Program Requirements

At IPFW you may complete the following courses:

- Credits in anthropology, psychology, or sociology Credits: 6
- Credits in humanities Credits: 3
- Credits in math and science electives Credits: 3
- BIOL 215 - Basic Human Anatomy Cr. 4.
- BIOL 216 - Basic Mammalian Physiology Cr. 4.
- CS 106 - Introduction to Computers Cr. 3.
(or alternate CS course)
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.

One of the following: Credits: 5-6

- MA 153 - Algebra and Trigonometry I Cr. 3.
and
- MA 154 - Algebra and Trigonometry II Cr. 3.
or higher
- MA 159 - Precalculus Cr. 5.

One of the following: Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.

Credits in selected courses in physical and biological sciences

(must have a total of 20)

- BIOL 215 - Basic Human Anatomy Cr. 4.
and
- BIOL 216 - Basic Mammalian Physiology Cr. 4.

- CHM 115 - General Chemistry Cr. 4.
and
- CHM 116 - General Chemistry Cr. 4.
- PHYS 220 - General Physics Cr. 4.
(PHYS 218 or 201 may be substituted)

One of the following: Credits: 1-3

- BIOL 105 - Medical Terminology Cr. 1.
- NUR 106 - Medical Terminology Cr. 3.

Total Credits: 60

Occupational Therapy

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

An undergraduate degree in occupational therapy is no longer available. The entry-to-practice degree for the profession is now a master of science in occupational therapy. A bachelor of science in any discipline is required to apply for the master of science in occupational therapy program, which is offered through IUPUI (Indianapolis). You may earn your bachelor of science at IPFW then apply to the IUPUI graduate program, based on your interests. The M.S. program has no preference about which major you choose for your B.S., as long as you also complete the prerequisite courses found below.

Students must have completed a baccalaureate degree prior to admission into the program with a minimum cumulative GPA of 3.0. Five of the six prerequisites should be completed prior to application as well as observation and or volunteer work. A group interview is scheduled in the spring following receipt of the Jan. 15 application package.

Completion of these requirements does not guarantee admission to the program. Competitive GPAs are generally higher than the stated minimums. The details of the occupational therapy prerequisites should be discussed with an IPFW health professions or health sciences advisor (260-481-6967). You may also contact the advisor at the Indianapolis campus to discuss the M.S. in occupational therapy by calling 317-274-7238, or by e-mail at reakins@iupui.edu. You should also visit the Web site at www.shrs.iupui.edu/ot/.

Program Requirements

At IPFW, you may complete a prerequisite B.S. (see above) and must also complete the following courses:

- NUR 106 - Medical Terminology Cr. 3.
- PSY 350 - Abnormal Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.

One of the following sequences: Credits: 6-8

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
and
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 215 - Basic Human Anatomy Cr. 4.
and
- BIOL 216 - Basic Mammalian Physiology Cr. 4.

One of the following: Credits: 3

- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- SPEA K300 - Statistical Techniques Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Total Required Prerequisites: 18-20

Paramedic Sciences

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

You must be an Indiana- or nationally certified EMT with at least 20 hours of documented patient contact in an ambulance to complete this degree in Indianapolis. At IPFW, you may complete one year toward the Associate of Science in paramedic sciences offered at the Indianapolis campus of the Indiana University School of Medicine. The details of your general-education requirements should be discussed with an IPFW health professions advisor. You may also consult a health professions advisor at the Indianapolis campus for additional information or to discuss the Associate of Science, 317-278-4752 or askhpp@iupui.edu.

Program Requirements

At IPFW, you may complete the following courses:

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
or
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 215 - Basic Human Anatomy Cr. 4.
or
- BIOL 216 - Basic Mammalian Physiology Cr. 4.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 109 - Elementary Algebra Cr. 3.

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

One of the following: Credits: 3

- Credits in approved elective (see advisor) Credits: 3-5
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.

Total Credits: 24-26

Physical Therapy

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

An undergraduate degree in physical therapy is no longer available. The entry-to-practice degree for the profession is now the Doctor of Physical Therapy (D.P.T.), a graduate degree. Students can prepare for the D.P.T. in physical therapy as follows. At IPFW you may earn any baccalaureate degree then apply for the Doctor of Physical Therapy offered by the School of Health and Rehabilitation Sciences at the Indianapolis campus of Indiana University. Courses in statistics, chemistry, anatomy, physiology, and physics must be completed no more than seven years prior to admission to the D.P.T. program. All prerequisite courses must be passed with a grade of C or better. A minimum cumulative GPA of 3.2 and a math/science GPA of 3.2 is required for admission into the IUPUI program. An essay and clinical observations are also required for admission. Completion of these course requirements does not guarantee admission to the IUPUI program. The details of physical therapy prerequisites should be discussed with an IPFW allied health advisor. You must also consult with an advisor at the Indianapolis campus to discuss the D.P.T., 317-274-7238 or e-mail reakinst@iupui.edu, or visit www.shrs.iupui.edu/pt/.

Your undergraduate program must include the following:

Program Requirements

- Humanities/social sciences electives Credits: 6
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- PSY 120 - Elementary Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.

Choose one of the following: Credits: 3-4

- BIOL 203 - Human Anatomy and Physiology Cr. 4.

- BIOL 215 - Basic Human Anatomy Cr. 4.

Choose one of the following: Credits: 3-4

- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 216 - Basic Mammalian Physiology Cr. 4.

Choose one sequence: Credits: 8

- PHYS 201 - General Physics I Cr. 5.
and
- PHYS 202 - General Physics II Cr. 5.
(summer only)
or
- PHYS 218 - General Physics Cr. 4.
and
- PHYS 219 - General Physics II Cr. 4.
or
- PHYS 220 - General Physics Cr. 4.
and
- PHYS 221 - General Physics Cr. 4.

Choose one: Credits: 3

- SPEA K300 - Statistical Techniques Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Total Credits: 39

Prepharmacy

Program: Transfer Program School of Arts and Sciences

Classroom-Medical Building 153 ~ 260-481-6160

Because the School of Pharmacy and Pharmacal Sciences at the Purdue University West Lafayette campus does not admit first- or second-year students, you must complete at least 64 credits in the two-year prepharmacy program and apply for admission to the school prior to Jan. 1 of the second year. To complete the prepharmacy program at IPFW, you should apply for admission as a prepharmacy student in the School of Arts and Sciences and complete the requirements listed below. To be considered for admission to the West Lafayette program, you should have at least a B+ average for all courses. If you do not gain admission to

the pharmacy school, you may transfer to another program at IPFW. A complete set of degree requirements is available from the School of Pharmacy at West Lafayette.

Program Requirements

- Credits in approved electives Credits: Cr. 9
- BIOL 108 - Biology of Plants Cr. 4.
- BIOL 109 - Biology of Animals Cr. 4.
- BIOL 215 - Basic Human Anatomy Cr. 4.
- BIOL 216 - Basic Mammalian Physiology Cr. 4.
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- ECON E200 - Fundamentals of Economics Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.
- PHYS 220 - General Physics Cr. 4.

Total Credits: 64

Preveterinary

Program: Transfer Program School of Arts and Sciences

Classroom Medical Building 153A ~ 260-481-6749

At IPFW, you may complete the four-semester preveterinary curriculum, which includes the minimum requirements for admission to the School of Veterinary Medicine at the West Lafayette campus of Purdue University.

If you do not gain admission to veterinary medicine, you may use the curriculum below as the basis for continued study toward a degree in the School of Agriculture at West Lafayette. Students should contact the agriculture dean's deputy early in their academic career to discuss degree options. By substitution of certain BIOL courses, you may pursue this option as a biology major and obtain the B.S. with a major in biology rather than in agriculture.

Program Requirements

You may complete the following courses at IPFW:

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- CHM 533 - Introductory Biochemistry Cr. 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.
- PHYS 220 - General Physics Cr. 4.
- PHYS 221 - General Physics Cr. 4.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Credits in an agriculture course Credits: 3

Credits in English composition Credits: 6

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Credits from the following areas: Credits: 12

- Anthropology
- Communication
- Economics
- History
- Fine arts, music, and theatre (history and appreciation only)
- Foreign language
- Literature
- Philosophy
- Political science
- Psychology
- Sociology

Credits in one of the following concentrating electives Credits: 3

- ANSC 101 - Animal Agriculture Cr. 3.
- ANSC 221 - Principles of Animal Nutrition Cr. 3.
- VM 102 - Careers in Veterinary Cr. 1.

Total Credits: 82

Preveterinary Technology

Program: Transfer Program School of Arts and Sciences

Science Building G56 ~ 260-481-6304

At IPFW, you may complete the four-semester preveterinary curriculum, which includes the minimum requirements for admission into the baccalaureate degree program in veterinary technology at the West Lafayette campus of Purdue University.

Also available are the associate degree program and a distancelearning Web-based instruction program for veterinary technology, both administered through Purdue University West Lafayette. For information concerning admission to these programs, please visit this Web site: <http://vet.vet.purdue.edu/vtdl/vtdlhome/>.

The distance-learning program leads to an associate degree from Purdue University while taking all required courses either at the IPFW campus, via distance learning and Web instruction, or in collaboration with local designated clinical mentors and/or veterinarians in the surrounding counties.

Program Requirements

You may complete the following courses for the baccalaureate and associate degree programs at IPFW:

- Nine credits for electives in the following areas: Credits: 9
anthropology, communication, economics, history, philosophy, political science, psychology, sociology
- ANSC 101 - Animal Agriculture Cr. 3.
- ANSC 221 - Principles of Animal Nutrition Cr. 3.
- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- CHM 111 - General Chemistry Cr. 3.
- CHM 112 - General Chemistry Cr. 3.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.
- VM 102 - Careers in Veterinary Cr. 1.

Total credits available for transfer to Purdue University Programs: 45

Radiation Therapy

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

At IPFW you may complete two years toward the Bachelor of Science offered at the Indianapolis campus of the Indiana University School of Medicine. The details of your general education requirements should be discussed with an IPFW allied health advisor. You must also consult an advisor at the Indianapolis campus to discuss the bachelor's degree, 317-278-4752 or e-mail askhpp@iupui.edu. A minimum cumulative GPA of 2.5 and a minimum GPA of 2.3 for all math and science courses and a minimum grade of C for each prerequisite course is required for admission to the IUPUI program. Remedial courses are not utilized in the cumulative GPA or math/science GPA index. Observation in a radiation oncology facility is required prior to application. An interview is also required. Completion of these requirements does not guarantee admission to the IUPUI program. Further information about the IUPUI program is available by e-mail at dodunn@iupui.edu.

Program Requirements

At IPFW you may complete the following courses:

- Anthropology, psychology, or sociology Credits: 3
- Biology electives Credits: 1–7
- Humanities Credits: 3
- Business electives Credits: 6
- CS 106 - Introduction to Computers Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- PHYS 220 - General Physics Cr. 4.
- PSY 120 - Elementary Psychology Cr. 3.

One of the following: Credits: 1-3

- BIOL 105 - Medical Terminology Cr. 1.
- NUR 106 - Medical Terminology Cr. 3.

Choose one of the following:

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
- BIOL 215 - Basic Human Anatomy Cr. 4.

Choose one of the following:

- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 216 - Basic Mammalian Physiology Cr. 4.

One of the following: Credits: 5-6

- MA 153 - Algebra and Trigonometry I Cr. 3.
and
- MA 154 - Algebra and Trigonometry II Cr. 3.
or
- MA 159 - Precalculus Cr. 5.

One of the following: Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.

Total Credits: 50

Respiratory Therapy

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

At IPFW you may complete two years toward the Bachelor of Science in respiratory therapy. The Respiratory Therapy Program is part of a hospital- and university-based consortium. The details of your general-education requirements should be discussed with an IPFW health professions or health science advisor. You must also consult an advisor at the Indianapolis campus to discuss the bachelor's degree (317-278-4752). A minimum cumulative GPA of 2.5, and a minimum grade of C for each prerequisite course is required for admission to the IUPUI program. Completion of these courses requirements does not guarantee admission to the IUPUI program. Further information about the IUPUI program is also available at <http://msa.iusm.iu.edu/hpp/>.

At IPFW you may complete the following courses:

Program Requirements

- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- CHM 115 - General Chemistry Cr. 4.
- CS 106 - Introduction to Computers Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.

Choose one of the following:

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
Preferred course
- BIOL 215 - Basic Human Anatomy Cr. 4.

Choose one of the following:

- BIOL 204 - Human Anatomy and Physiology Cr. 4.
Preferred course
- BIOL 216 - Basic Mammalian Physiology Cr. 4.

One of the following: Credits: 5-6

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 159 - Precalculus Cr. 5.

One of the following: Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.
Preferred course

One of the following: Credits: 3

- PHIL 111 - Ethics Cr. 3.
- PHIL 312 - Medical Ethics Cr. 3.

One of the following: Credits: 3

- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- SPEA K300 - Statistical Techniques Cr. 3.

- STAT 301 - Elementary Statistical Methods I Cr. 3.

One of the following: Credits: 4-5

- PHYS 201 - General Physics I Cr. 5.
- PHYS 218 - General Physics Cr. 4.
- PHYS 220 - General Physics Cr. 4.
Preferred course

Credits in approved electives (to total 55) Credits: 6-7

Total Credits: 55

Part 5: Course Descriptions

Part 5 contains course descriptions in alphabetical order.

Standard information for each course includes the number, title, and credits (sometimes called credit hours or semester hours). For some courses, you will find information on the hours of class, laboratory, or studio for which the course is scheduled in each week of a regular semester; these weekly hours are expanded during summer sessions. Fees for courses are assessed on the basis of credits and other factors.

The course-numbering system generally suggests levels of difficulty and appropriateness. Courses at the 100 and 200 levels comprise introductory offerings and those are most commonly taken by freshmen and sophomores. Courses at the 300 and 400 levels are primarily for juniors and seniors. In some Purdue programs, undergraduates take courses at the 500 level, but generally courses numbered 500 and above are for graduate students.

Preparation for courses is indicated as follows:

P: indicates a prerequisite that must precede your enrollment in the course described. You may find one or more specific course numbers, the number of credits you should already have in a subject, a placement-test level, or other conditions.

C: indicates a corequisite that must be taken no later than the same semester in which you take the course described.

R: indicates a recommendation concerning conditions to be met for enrollment in the course.

When no subject code is shown for prerequisites, corequisites, and recommended courses, they are in the same subject area as the course being described. If you lack a prerequisite or corequisite, or if you wish to take a course numbered at a higher level than your present status, you should seek the department's or instructor's consent to enroll in the course.

V.T. means Variable Title and is shown for courses for which the title may be changed to specify the topic or other special focus of each offering.

Session indicators (fall, spring, summer) suggest the times at which courses are generally offered. Scheduling patterns may, however, vary.

IPFW reserves the right to add, withdraw, or change courses without notice.

ACS 544 - Performance Modeling and Evaluation of Computer Systems

ACS 560 - Software Engineering

ACS 562 - Systems Analysis and Design

ACS 564 - Human-Computer Interaction

ACS 566 - The Strategic Role of Information Systems

ACS 568 - Object-Oriented Systems Development

ACS 573 - Advanced Operating Systems

ACS 574 - Advanced Computer Networks

ACS 575 - Advanced Survey of Database Design,

ACS 582 - Expert Systems

AFRO A210 - The Black Woman in America

AGR 101 - Introduction to Agriculture and Purdue

AHLT C460 - Clinical Hematology

AHLT C461 - Clinical Analysis of Urine and Body Fluids

AHLT C462 - Clinical Microbiology and Mycology

AHLT C463 - Clinical Parasitology

AHLT C464 - Clinical Serology

AHLT C465 - Clinical Chemistry

AHLT C466 - Clinical Immunohemtology

AHLT C467 - Professional Development Topics in Medical Technology

AHLT R100 - Orientation to Radiologic Technology

AHLT R101 - Radiographic Procedures I

AHLT R102 - Principles of Radiography I

AHLT R181 - Clinical Experience in Radiography

AHLT R182 - Clinical Experience in Radiography

AHLT R185 - Medical Terminology

AHLT R200 - Pathology

AHLT R200 - Pathology

AHLT R201 - Radiographic Procedures II

AHLT R202 - Principles of Radiography II

AHLT R205 - Radiographic Procedures III

AHLT R222 - Principles of Radiography III

AHLT R250 - Physics Applied to Radiology

AHLT R260 - Radiation Biology and Protection in Diagnostic Radiology

AHLT R281 - Clinical Experience in Radiography

AHLT R282 - Clinical Experience in Radiography

AHLT R283 - Clinical Experience in Radiography

AHLT R290 - Comprehensive Experience

AMST A301 - The Question of American Identity

AMST A440 - Senior Seminar in American Studies

ANSC 101 - Animal Agriculture

ANSC 221 - Principles of Animal Nutrition

ANTH A200 - Topics in Anthropology

ANTH A460 - Topics in Anthropology

ANTH A495 - Individual Readings in Anthropology

ANTH A496 - Field Study in Anthropology

ANTH B200 - Bioanthropology

ANTH E102 - Anthropology of America

ANTH E105 - Culture and Society

ANTH E200 - Social and Cultural Anthropology

ANTH E301 - Plain People of Indiana

ANTH E310 - Introduction to the Cultures of Africa

ANTH E320 - Indians of North America

ANTH E321 - Peoples of Mexico

ANTH E330 - Indians of South America

ANTH E335 - Ancient Civilizations of Mesoamerica

ANTH E341 - Culture of China

ANTH E350 - European Ethnography

ANTH E400 - Undergraduate Seminar

ANTH E401 - Ecology and Culture

ANTH E402 - Gender in Cross-Cultural Perspective

ANTH E420 - Economic Anthropology

ANTH E421 - The Anthropology of Aging

ANTH E445 - Medical Anthropology

ANTH E455 - Anthropology of Religion

ANTH E462 - Anthropological Folklore

ANTH E470 - Psychological Anthropology

ANTH E479 - Indian Cultures of Peru

ANTH H445 - History and Theory of Anthropology

ANTH L200 - Language and Culture

ANTH L400 - Seminar in the Ethnography of Communication

ANTH P200 - Introduction to Prehistoric Archaeology

ANTH P220 - Rise and Fall of Ancient Civilizations

ANTH P240 - Archaeology and the Movies

ANTH P300 - Topics in Prehistory

ANTH P310 - Old World Archaeology

ANTH P360 - Archaeology of North America

ANTH P361 - Prehistory of Eastern North America

ANTH P370 - Ancient Cultures of South America

ANTH P376 - Archaeology of Death

ANTH P382 - Archaeological Research Design

ANTH P399 - Undergraduate Seminar

ANTH P400 - Archaeological Methods and Techniques

ANTH P405 - Fieldwork in Archaeology

ARET 123 - Construction Graphic Communication

ARET 124 - Architectural Engineering Construction I

ARET 167 - Construction Systems and Materials

ARET 222 - Architectural Engineering Construction II

ARET 281 - Environmental Equipment for Buildings I

ARET 282 - Environmental Equipment for Buildings II

ARET 291 - Architectural Technology Cooperative I

ARET 292 - Architectural Technology Cooperative II

ARET 321 - Architectural Presentation Techniques I

ARET 324 - Architectural Engineering Construction III

ARET 354 - Principles of Land Use

ARET 355 - Techniques of Land Utilization

ARET 384 - Environmental Equipment for Buildings III

ARET 391 - Architectural Technology Cooperative III

ARET 392 - Architectural Technology Cooperative IV

ARET 491 - Architectural Technology Cooperative V

ARET 499 - Architectural Engineering Technology

ASC 567 - Software Project Management

AST A100 - The Solar System

AST L100 - Solar System Laboratory

AUS 115 - Introduction to Communicative Disorders

AUS 181 - First Course in American Sign Language

AUS 182 - Second Course in American Sign Language

AUS 302 - Acoustic Bases of Speech and Hearing

AUS 304 - Anatomy and Physiology of the Speech and Hearing Mechanism

AUS 306 - Introduction to Phonetics

AUS 309 - Language Development

AUS 399 - Directed Study in Audiology and Speech Sciences

AUS 405 - Augmentative and Computer Applications in Speech and Language

AUS 420 - Introduction to Developmental Speech and Language Disorders

AUS 430 - Speech-Language Disorders in Healthcare Settings

AUS 449 - Introduction to Clinical Practice in Speech-Language Pathology

AUS 460 - Introduction to Assessment Audiology

AUS 516 - Foundations of Assessment in Communication Disorders

AUS 521 - Phonetic and Phonological Disorders in Children

AUS 549 - Clinical Practice in Speech/ Language Pathology I

AUS 550 - Aural Rehabilitation for Adults

AUS 551 - Aural Rehabilitation for Children

AUS 590 - Directed Study of Special Problems

BIOL 91 - Professional Practice I

BIOL 92 - Professional Practice II

BIOL 93 - Professional Practice III

BIOL 94 - Professional Practice IV

BIOL 95 - Professional Practice V

BIOL 100 - Introduction to the Biological World

BIOL 100L - Introduction to the Biological World Laboratory

BIOL 105 - Medical Terminology

BIOL 108 - Biology of Plants

BIOL 109 - Biology of Animals

BIOL 117 - Principles of Ecology and Evolution

BIOL 119 - Principles of Structure and Function

BIOL 195 - Special Assignments

BIOL 203 - Human Anatomy and Physiology

BIOL 204 - Human Anatomy and Physiology

BIOL 215 - Basic Human Anatomy

BIOL 216 - Basic Mammalian Physiology

BIOL 217 - Intermediate Ecology

BIOL 218 - Genetics and Molecular Biology

BIOL 219 - Principles of Functional Biology

BIOL 220 - Microbiology for Allied Health Professionals

BIOL 250 - Women and Biology

BIOL 295 - Special Assignments

BIOL 304 - Major Ideas in Biology

BIOL 304 - Major Ideas in Biology

BIOL 315 - Developmental Anatomy

BIOL 317 - Addictions: Biology, Psychology, and Society

BIOL 326 - Heredity: A Human Perspective

BIOL 326 - Heredity: A Human Perspective

BIOL 327 - Biology of Aging

BIOL 334 - Clinical Pathophysiology

BIOL 335 - Animal Behavior

BIOL 336 - Animal Behavior Lab

BIOL 345 - Vertebrate Biology

BIOL 349 - Environmental Science

BIOL 350 - Plant Physiology

BIOL 381 - Cell Biology

BIOL 382 - Laboratory in Cell Biology

BIOL 434 - Marine Community Ecology

BIOL 437 - General Microbiology

BIOL 445 - Aquatic Biology

BIOL 455 - Animal Physiology

BIOL 456 - Laboratory in Animal Physiology

BIOL 491 - Senior Biology Seminar

BIOL 502 - Conservation Biology

BIOL 505 - Biology of Invertebrate Animals

BIOL 506 - Human Molecular Genetics

BIOL 509 - Molecular Biology and Applications

BIOL 515 - Molecular Genetics

BIOL 516 - Molecular Biology of Cancer

BIOL 533 - Medical Microbiology

BIOL 537 - Immunobiology

BIOL 540 - Biotechnology

BIOL 543 - Population Ecology

BIOL 544 - Principles of Virology

BIOL 546 - Principles of Virology Laboratory

BIOL 556 - Physiology I

BIOL 558 - Laboratory in Physiology

BIOL 559 - Endocrinology

BIOL 565 - Immunobiology Laboratory

BIOL 566 - Developmental Biology

BIOL 567 - Laboratory in Developmental Biology

BIOL 569 - Cellular Neurobiology

BIOL 579 - Fate of Chemicals in the Environment

BIOL 580 - Evolution

BIOL 582 - Ecotoxicology

BIOL 584 - Molecular Biology and Applications Laboratory

BIOL 586 - Topics in Behavior and Ecology

BIOL 592 - The Evolution of Behavior

BIOL 595 - Special Assignments

BIOL 598 - Biology of Fish

BUFW X295 - Practicum in Business

BUFW X380 - Professional Practice in Business

BUFW X381 - Professional Practice in Business

BUS A201 - Principles of Financial Accounting

BUS A202 - Principles of Managerial Accounting

BUS A311 - Intermediate Accounting I

BUS A312 - Intermediate Accounting II

BUS A314 - Financial Statement Analysis

BUS A317 - Computer-Based Accounting Systems

BUS A325 - Cost Accounting

BUS A328 - Introduction to Taxation

BUS A331 - Taxation of Business Entities

BUS A332 - Taxation of Individuals

BUS A335 - Fund Accounting

BUS A336 - Internship in Accounting

BUS A339 - Advanced Income Tax

BUS A422 - Advanced Financial Accounting

BUS A424 - Auditing

BUS A425 - Contemporary Accounting Theory

BUS A437 - Advanced Management Accounting

BUS A439 - Advanced Auditing

BUS A490 - Independent Study in Accounting

BUS D300 - International Business Administration

BUS D490 - Special Studies in International Business Administration

BUS F260 - Personal Finance

BUS F301 - Financial Management

BUS F303 - Intermediate Finance

BUS F310 - Financial Statement Analysis - Finance Perspective

BUS F345 - Money/Banking/Capital Markets

BUS F350 - Futures and Options Markets

BUS F420 - Equity and Fixed Income Investments

BUS F446 - Management of Commercial Banks and Other Financial Institutions

BUS F480 - Professional Practice in Finance

BUS F490 - Independent Study in Finance

BUS F494 - International Finance

BUS G300 - Introduction to Managerial Economics

BUS J300 - Business Forum-Current Topics in Competitiveness, Quality, and Professionalism Presented by Business Leaders

BUS J401 - Policy and Strategy

BUS K200 - Computer Literacy Concepts for Business

BUS K211 - Spreadsheets for Business

BUS K212 - Introduction to Database Management

BUS K213 - Internet Literacy for Business

BUS K214 - Introduction to Word Processing

BUS K215 - Basic Programming for Business

BUS K216 - Business Graphics

BUS K321 - Management of Information Technology

BUS K327 - Deterministic Models in Operations Research

BUS K490 - Independent Study in Decision Sciences

BUS L200 - Elements of Business Law

BUS L303 - Commercial Law II

BUS M301 - Marketing Management in a Competitive Environment

BUS M303 - Marketing Research

BUS M405 - Buyer Behavior

BUS M408 - Quantitative Methods for Marketing Management

BUS M415 - Advertising and Promotion Management

BUS M420 - New Product Management

BUS M426 - Sales Management

BUS M450 - Marketing Strategy and Policy

BUS M490 - Independent Study in Marketing

BUS P301 - Managing Operations in a Competitive Environment

BUS P421 - Operations Planning and Control

BUS P490 - Independent Study in Operations Management

BUS W100 - Principles of Business Administration

BUS W204 - Social, Legal, and Ethical Implications of Business Decisions

BUS W311 - Small Business Entrepreneurship

BUS W312 - Entrepreneurship

BUS W430 - Leadership, Teamwork, and Group Dynamics in Organizations

BUS W490 - Independent Study in Business Administration

BUS X394 - Practicum in Business

BUS Z302 - Management of Organizations and People

BUS Z440 - Personnel: Human Resources Management

BUS Z444 - Personnel Research and Measurement

BUS Z490 - Independent Study in Personnel Management and Organizational Behavior

CDFS 255 - Introduction to Couple and Family Relationships

CET 104 - Elementary Surveying

CET 108 - Route Surveying and Design

CET 181 - Applied Structures I

CET 206 - Construction Surveying

CET 209 - Land Surveying and Subdivision

CET 253 - Hydraulics and Drainage

CET 266 - Materials Testing

CET 283 - Applied Structures II

CET 291 - Civil Engineering Technology Cooperative I

CET 292 - Civil Engineering Technology Cooperative II

CET 299 - Civil Engineering Technology

CET 353 - Hydraulics and Drainage II

CET 381 - Applied Structures III

CET 385 - Fundamentals of Reinforced Concrete

CET 391 - Civil Engineering Technology Cooperative III

CET 392 - Civil Engineering Technology Cooperative IV

CET 409 - Property Surveying

CET 431 - Properties and Behavior of Soils

CET 453 - Water and Waste-Water Technology

CET 482 - Steel Structure Design

CET 484 - Wood Timber and Formwork

CET 491 - Civil Engineering Technology Cooperative V

CET 499 - Civil Engineering Technology

CFS 369 - Wellness and Stress Management

CFS 399 - Special Issues

CHM 91 - Cooperative Work Experience I

CHM 92 - Cooperative Work Experience II

CHM 93 - Cooperative Work Experience III

CHM 94 - Cooperative Work Experience IV

CHM 95 - Cooperative Work Experience V

CHM 102 - Lectures in Chemical Science for Engineers

CHM 104 - Living Chemistry

CHM 111 - General Chemistry

CHM 112 - General Chemistry

CHM 115 - General Chemistry

CHM 116 - General Chemistry

CHM 213 - Chemical Literature

CHM 218 - Introduction to Inorganic Chemistry

CHM 224 - Introductory Quantitative Analysis

CHM 254 - Organic Chemistry Laboratory

CHM 255 - Organic Chemistry

CHM 256 - Organic Chemistry

CHM 258 - Organic Chemistry Laboratory

CHM 261 - Organic Chemistry

CHM 262 - Organic Chemistry

CHM 265 - Organic Chemistry Laboratory

CHM 266 - Organic Chemistry Laboratory

CHM 290 - Selected Topics in Chemistry for Lower Division Students

CHM 321 - Analytical Chemistry I

CHM 342 - Inorganic Chemistry

CHM 343 - Inorganic Chemistry Laboratory

CHM 371 - Physical Chemistry

CHM 376 - Physical Chemistry Laboratory

CHM 383 - Physical Chemistry

CHM 384 - Physical Chemistry

CHM 385 - Physical Chemistry

CHM 424 - Analytical Chemistry II

CHM 490 - Selected Topics in Chemistry for Upper Division Students

CHM 495 - Seminar in Chemistry

CHM 496 - Advances in Chemistry I

CHM 497 - Advances in Chemistry II

CHM 499 - Special Assignments

CHM 502 - Modern Chemistry in the High School

CHM 505 - Advanced Chemistry for Teachers I

CHM 506 - Advanced Chemistry for Teachers II

CHM 525 - Intermediate Analytical Chemistry

CHM 528 - Principles and Practice of NMR

CHM 533 - Introductory Biochemistry

CHM 534 - Introductory Biochemistry

CHM 535 - Biochemistry Laboratory

CHM 542 - Inorganic Chemistry

CHM 548 - Radiochemistry

CHM 561 - Fundamental Organic Chemistry

CHM 563 - Organic Chemistry

CHM 577 - Physical Chemistry

CHM 578 - Physical Chemistry

CHM 599 - Special Assignments

CLAS C205 - Classical Mythology

CLAS C405 - Comparative Mythology

CMLT C217 - Detective and Mystery Literature

CMLT C255 - Modern Literature and the Other Arts: An Introduction

CMLT C333 - Romanticism

CMLT C337 - The 20th Century: Tradition and Change

CMLT C340 - Women in World Literature

CNET 190 - Experience in Construction I

CNET 276 - Specs, Contracts, and Codes

CNET 280 - Quantity Estimating

CNET 290 - Experience in Construction II

CNET 344 - Constructed Project Quality I

CNET 348 - Project Design Analysis

CNET 390 - Experience in Construction III

CNET 391 - Construction Cooperative III

CNET 392 - Construction Cooperative IV

CNET 395 - Construction Practicum

CNET 441 - Construction Operations

CNET 442 - Costs Estimating

CNET 443 - Engineered Construction

CNET 445 - Construction Project Management I

CNET 448 - Project Design Synthesis

CNET 454 - Construction Legal Aspects

CNET 455 - Company Management

CNET 457 - Construction Safety

CNET 491 - Cooperative Experience in Construction V

CNET 499 - Construction Engineering Technology

COAS W398 - Internship in Professional Practice

COM 114 - Fundamentals of Speech Communication

COM 114H - Fundamentals of Speech Communication

COM 210 - Debating Public Issues

COM 212 - Approaches to the Study of Interpersonal Communication

COM 250 - Mass Communication and Society

COM 251 - Introduction to the Electronic Mass Media

COM 253 - Introduction to Public Relations

COM 300 - Introduction to Communication Research Methods

COM 303 - Intercultural Communication

COM 310 - Family Communication

COM 312 - Rhetoric in the Western World

COM 314 - Advanced Presentational Speaking

COM 315 - Speech Communication of Technical Information

COM 316 - Controversy in American Society

COM 316H - Controversy in America- Honors

COM 318 - Principles of Persuasion

COM 320 - Small Group Communication

COM 323 - Business and Professional Speaking

COM 324 - Introduction to Organizational Communication

COM 325 - Interviewing: Principles and Practice

COM 330 - Theories of Mass Communication

COM 331 - Audio Production

COM 332 - Television Studio Production

COM 333 - Film Production

COM 334 - Journalism for the Electronic Mass Media

COM 337 - Video Production/Editing

COM 338 - Documentary and Experimental Film and Video

COM 352 - Mass Communication Law

COM 410 - Gender Roles and Communication

COM 422 - Women, Men, and Media

COM 431 - Practicum in Radio

COM 432 - Practicum in Television

COM 433 - Practicum in Film

COM 436 - Script Writing

COM 471 - Communicating Peace

COM 490 - Internship in Communication

COM 491 - Special Topics in Communication

COM 491H - Special Topics in Communication-Honors

COM 493 - Interdisciplinary Undergraduate Seminar

COM 502 - Classroom Communication

COM 507 - Introduction to Semiotics

COM 508 - Nonverbal Communication in Human Interaction

COM 512 - Theories of Interpersonal Communication

COM 515 - Persuasion in Social Movements

COM 516 - Analysis of Persuasive Messages

COM 517 - Communication in Politics

COM 518 - Theories of Persuasion

COM 520 - Small Group Communication

COM 521 - Theories of Rhetoric

COM 522 - History and Criticism of Public Communication

COM 523 - Communication in Personal Relationships

COM 525 - Advanced Interviewing

COM 527 - Introduction to Cultural Studies

COM 531 - Special Topics in Mass Communication

COM 532 - Telecommunication Systems Management

COM 534 - Comparative Telecommunication Systems

COM 537 - Educational/Instructional Television

COM 557 - Legal Dimensions of Communication

COM 559 - Current Trends in Mass Communication Research

COM 560 - Rhetorical Dimensions of Mass Media

COM 563 - Public Policy in Telecommunication

COM 574 - Organizational Communication

COM 582 - Descriptive/Experimental Research in Communication

COM 584 - Historical/Critical Research in Communication

COM 590 - Directed Study of Special Problems

CPET 101 - Electrical Circuits

CPET 161 - Analog Electronics

CPET 181 - Computer Operating Systems Basics

CPET 190 - Problem Solving with MATLAB

CPET 213 - Web-based Analysis and Design

CPET 281 - Local Area Networks and Management

CPET 299 - Selected Computer Engineering Technology Subjects (V.T.)

CPET 355 - Data Communications and Networking

CPET 364 - Networking Security

CPET 375 - Microprocessor-Based Digital Systems

CPET 384 - Wide Area Network Design

CPET 411 - Microcomputer Interfacing

CPET 470 - Technology Project Management

CPET 472 - Automatic Control Systems

CPET 486 - Robotics and Control Electronics with Microcomputers

CPET 490 - Senior Design Project I

CPET 491 - Senior Design Project II

CPET 493 - Wireless Networking

CPET 494 - Java Programming Applications

CPET 495 - Web Engineering and Design

CPET 499 - Computer Engineering Technology

CS 106 - Introduction to Computers

CS 112 - Survey of Computer Science

CS 114 - Introduction to Visual Basic

CS 155 - COBOL Programming

CS 160 - Introduction to Computer Science I

CS 160H - Introduction to Computer Science I Honors

CS 161 - Introduction to Computer Science II

CS 170 - C and Data Structures

CS 172 - Introduction to C

CS 203 - Advanced Visual Basic

CS 232 - Introduction to C and Unix

CS 256 - Applications Software Project

CS 260 - Data Structures

CS 270 - Assembly Language

CS 271 - Computer Architecture

CS 274 - Data Communications

CS 280 - Survey of Information Technology

CS 292 - Intermediate Topics in Computer Science

CS 295 - Industrial Practicum

CS 306 - Computers in Society

CS 321 - Introduction to Computer Graphics

CS 331 - Introduction to C++ and Object-Oriented Programming

CS 350 - Programming Language Design

CS 360 - Software Engineering

CS 364 - Introduction to Database Systems

CS 365 - Advanced Database Systems

CS 366 - Structured Analysis Techniques

CS 367 - Structured Design Techniques

CS 368 - Human-Computer Interaction

CS 372 - Web Application Development

CS 374 - Computer Networks

CS 376 - Advanced Computer Architecture

CS 380 - Artificial Intelligence

CS 384 - Numerical Analysis

CS 395 - Industrial Practice I

CS 421 - Advanced Computer Graphics

CS 460 - Capstone Design and Professional Practice

CS 464 - Computer Systems Planning

CS 466 - Strategic Issues for Information Systems

CS 467 - Project Management

CS 472 - Operating Systems Design

CS 474 - Compiler Construction

CS 486 - Analysis of Algorithms

CS 488 - Theory of Computation

CS 492 - Topics in Computer Science

CS 494 - Directed Study

CS 495 - Cooperative Experience

CS 514 - Numerical Analysis

CS 520 - Computational Methods in Analysis

CS 543 - Introduction to Simulation and Modeling of Computer Systems

CS 547 - Information Storage and Retrieval and Natural Language Processing

CS 572 - Heuristic Problem Solving

CS 580 - Algorithm Design, Analysis, and Implementation

CS 590 - Topics in Computer Science

DAST A111 - Oral Pathology, Physiology, and Anatomy

DAST A112 - Dental and Medical Emergencies and Therapeutics

DAST A113 - Oral Path, Physiology, and Anatomy II

DAST A121 - Microbiology and Asepsis Technique

DAST A122 - Introduction to Dentistry

DAST A131 - Dental Materials I

DAST A132 - Dental Materials II

DAST A141 - Preventive Dentistry and Nutrition

DAST A151 - Radiology Clinic I

DAST A161 - Behavioral Science

DAST A162 - Written and Oral Communication

DAST A171 - Clinical Science I

DAST A172 - Clinical Science II

DAST A182 - Practice Management, Ethics, and Jurisprudence

DAST A190 - Expanded Functions (Restorative)

DAST A300 - Special Topics in Dental Education

DHYG D401 - Clinical Supervision

DHYG D402 - Clinical Supervision

DHYG H211 - Head and Neck Anatomy

DHYG H214 - Oral Anatomy

DHYG H215 - Pharmacology and Therapeutics (lecture)

DHYG H216 - Chemistry and Nutrition- First Year

DHYG H217 - Preventive Dentistry

DHYG H218 - Fundamentals of Dental Hygiene (lecture and lab)

DHYG H219 - Clinical Practice I

DHYG H221 - Clinical Dental Hygiene Procedures

DHYG H222 - Advanced Clinical Dental Hygiene Procedures

DHYG H242 - Introduction to Dentistry - Specialities

DHYG H301 - Clinical Practice II

DHYG H302 - Clinical Practice III

DHYG H303 - Radiology (lecture and lab)

DHYG H304 - Oral Pathology

DHYG H305 - Radiology Clinic I

DHYG H306 - Radiology Clinic II

DHYG H307 - Radiology Clinic III

DHYG H308 - Dental Materials (lecture and lab)

DHYG H309 - Practice of Community Dental Hygiene

DHYG H310 - Technical Writing

DHYG H320 - Practice Management, Ethics, and Jurisprudence

DHYG H321 - Periodontics

DHYG H344 - Senior Hygiene Seminar

DHYG H347 - Dental Public Health

DLTP D111 - History, Ethics, Organization

DLTP D112 - Dental Anatomy

DLTP D113 - Basic Physics, Chemistry, and Dental Materials

DLTP D114 - Occlusion

DLTP D125 - Crown and Bridge Prosthodontics I

DLTP D126 - Orthodontics/ Pedodontics Appliances I

DLTP D127 - Complete Denture Prosthodontics I

DLTP D128 - Partial Denture Prosthodontics I

DLTP D129 - Dental Ceramics I

DLTP D215 - Crown and Bridge Prosthodontics II

DLTP D216 - Orthodontics/ Pedodontics Appliances II

DLTP D217 - Complete Denture Prosthodontics II

DLTP D218 - Partial Denture Prosthodontics II

DLTP D219 - Dental Ceramics II

DLTP D221 - Dental Laboratory Business Procedures

DLTP D222 - Practical Laboratory Experience

DLTP D225 - Specialty in Crown and Bridge Prosthodontics

DLTP D226 - Specialty in Orthodontics/ Pedodontics

DLTP D227 - Specialty in Complete Denture Prosthodontics

DLTP D228 - Specialty in Partial Denture Prosthodontics

DLTP D229 - Specialty in Dental Ceramics

EALC C101 - Elementary Chinese I

EALC C102 - Elementary Chinese II

EALC C201 - Second-Year Chinese I

EALC C202 - Second-Year Chinese II

EALC E232 - China: The Enduring Heritage

ECE 201 - Linear Circuit Analysis I

ECE 202 - Linear Circuit Analysis II

ECE 207 - Electronic Measurement Techniques

ECE 208 - Election Devices and Design Laboratory

ECE 255 - Introduction to Electronic Analysis and Design

ECE 270 - Introduction to Digital System Design

ECE 280 - Electronics and System Engineering through Robotics

ECE 281 - Electronics and System Engineering through Robotics Lab

ECE 291 - Industrial Practice I

ECE 292 - Industrial Practice II

ECE 301 - Signals and Systems

ECE 302 - Probabilistic Methods in Electrical Engineering

ECE 311 - Electric and Magnetic Fields

ECE 358 - Introduction to VHDL Programming

ECE 362 - Microprocessor Systems and Interfacing

ECE 368 - Data Structures

ECE 373 - Numerical Methods for Engineers

ECE 382 - Feedback System Analysis and Design

ECE 393 - Industrial Practice III

ECE 394 - Industrial Practice IV

ECE 395 - Industrial Practice V

ECE 405 - Senior Engineering Design I

ECE 406 - Senior Engineering Design II

ECE 418 - Introduction to Computer Graphics

ECE 425 - Electric Machines,

ECE 436 - Digital Signal Processing

ECE 437 - Computer Design and Prototyping

ECE 442 - Transmission of Information

ECE 443 - Communications Laboratory

ECE 447 - Modern Filter Design

ECE 460 - Power Electronics

ECE 465 - Embedded Microprocessors

ECE 467 - Advanced Digital Systems/ Embedded Microcontroller Design Laboratory

ECE 469 - Operating Systems Engineering

ECE 483 - Digital Control Systems - Analysis and Design

ECE 495 - Selected Topics in Electrical Engineering

ECE 496 - Electrical Engineering Projects

ECE 497 - Research in Electrical Engineering I

ECE 498 - Research in Electrical Engineering II

ECE 535 - Transmission and Distribution of Electric Energy

ECE 547 - Introduction to Computer Communication Networks

ECE 565 - Computer Architecture

ECE 589 - State Estimation and Parameter Identification of Stochastic Systems

ECE 595 - Selected Topics in Electrical Engineering

ECET 101 - Electrical Circuits

ECET 107 - Introduction to Circuit Analysis

ECET 111 - Digital Circuits

ECET 114 - Introduction to Microcomputers

ECET 146 - Digital Circuits II

ECET 152 - Electrical Circuits II

ECET 157 - Electronics Circuit Analysis

ECET 161 - Analog Electronics

ECET 204 - Analog Electronics II

ECET 205 - Introduction to Microprocessors

ECET 207 - AC Electronics Circuit Analysis

ECET 209 - Introduction to Microcontrollers

ECET 211 - Electrical Machines and Controls

ECET 215 - Introduction to Industrial Electronics

ECET 231 - Electrical Power and Controls

ECET 234 - PC Systems I

ECET 264 - C Programming Language Applications

ECET 291 - Industrial Practice I

ECET 292 - Industrial Practice II

ECET 295 - Industrial Practicum

ECET 296 - Electronic System Fabrication

ECET 298 - Practicum in Music Technology

ECET 299 - Selected Electrical Engineering Technology Subject

ECET 302 - Introduction to Control Systems

ECET 303 - Communications I

ECET 305 - Advanced Microprocessors

ECET 307 - Analog Network Signal Processing

ECET 312 - Power Electronics

ECET 331 - Generation and Transmission of Electrical Power

ECET 346 - Advanced Digital Circuits

ECET 348 - Project Design Analysis

ECET 355 - Data Communications and Networking

ECET 357 - Real-Time Digital Signal Processing

ECET 361 - Introduction to PLC and Pneumatic Systems

ECET 365 - Electrical Measurements

ECET 368 - Linear Integrated Circuits

ECET 372 - Process Control

ECET 375 - Computer Controlled System Designs

ECET 377 - Introduction to Fiber Optics

ECET 382 - C++ Object Oriented Programming for Industrial Applications

ECET 393 - Industrial Practice III

ECET 394 - Industrial Practice IV

ECET 395 - Industrial Practice V

ECET 403 - Communications II

ECET 411 - Microcomputer Interfacing

ECET 414 - Wireless Communications

ECET 434 - PC Systems II

ECET 435 - Electronic Industrial Controls

ECET 448 - Project Design Synthesis

ECET 453 - Topics in Telecommunications

ECET 466 - Windows Programming for Industrial Applications

ECET 468 - Microwave Solid State Devices

ECET 470 - Technology Project Management

ECET 472 - Automatic Control Systems

ECET 473 - Microwaves

ECET 486 - Robotics and Control Electronics with Microcomputers

ECET 490 - Senior Design Project, Phase I

ECET 491 - Senior Design Project, Phase II

ECET 492 - Digital Systems

ECET 498 - Practicum in Music Technology II

ECET 499 - Electrical Engineering Technology

ECON E200 - Fundamentals of Economics

ECON E201 - Introduction to Microeconomics

ECON E202 - Introduction to Macroeconomics

ECON E270 - Introduction to Statistical Theory in Economics and Business I

ECON E306 - Undergraduate Seminar in Economics

ECON E321 - Intermediate Microeconomic Theory

ECON E322 - Intermediate Macroeconomic Theory

ECON E323 - Urban Economics

ECON E328 - Game Theory Goes to the Movies

ECON E340 - Introduction to Labor Economics

ECON E346 - Economics of Gender

ECON E350 - Money and Banking

ECON E360 - Public Finance: Survey

ECON E385 - Economics of Industry

ECON E420 - History of Economic Thought

ECON E430 - International Economics

ECON E445 - Collective Bargaining: Practice and Problems

ECON E446 - Public Policy in Labor Relations

ECON E472 - Introduction to Econometrics

ECON S103 - Introduction to Microeconomics-Honors

EDUA F300 - Topical Exploration in Education

EDUA F400 - Topical Exploration in Education

EDUA G250 - Life Skills for Personal and Interpersonal Development

EDUC E317 - Practicum in Early Childhood Education

EDUC E325 - Social Studies in the Elementary Schools

EDUC E328 - Science in the Elementary Schools

EDUC E330 - Infant Learning Environments

EDUC E333 - Inquiry in Mathematics and Science

EDUC E335 - Introduction to Early Childhood Education

EDUC E336 - Play as Development

EDUC E337 - Classroom Learning Environments

EDUC E338 - The Early Childhood Educator

EDUC E339 - Methods of Teaching Language Arts

EDUC E340 - Methods of Teaching Reading I

EDUC E341 - Methods of Teaching Reading II

EDUC E346 - Discipline/Parenting for Young Children

EDUC E347 - Language Arts for Early Childhood

EDUC E490 - Research in Elementary Education

EDUC F400 - Honors Seminar

EDUC H340 - Education and American Culture

EDUC K201 - Schools, Society, and Exceptionality

EDUC K205 - Introduction to Exceptional Children

EDUC K206 - Teaching Methods for Students with Special Needs

EDUC K350 - Introduction to Mental Retardation

EDUC K352 - Education of Children with Learning Problems (LD and EMR)

EDUC K360 - Behavioral Characteristics of the Mentally Retarded

EDUC K370 - Introduction to Learning Disabilities

EDUC K371 - Assessment and Individualized Instruction in Reading and Mathematics

EDUC K400 - Computers for Students with Disabilities

EDUC K410 - Trends and Issues in Special Education

EDUC K453 - Management of Academic and Social Behavior

EDUC K465 - Service Delivery Systems and Consultation Strategies

EDUC M101 - Laboratory/Field Experience

EDUC M201 - Laboratory/Field Experience

EDUC M301 - Laboratory/Field Experience

EDUC M323 - The Teaching of Music in the Elementary Schools

EDUC M330 - Foundations of Art Education and Methods I

EDUC M333 - Art Experiences for the Elementary Teacher

EDUC M401 - Laboratory/Field Experience

EDUC M425 - Student Teaching: Elementary

EDUC M430 - Foundations of Art Education and Methods II

EDUC M443 - Methods of Teaching High School Social Studies

EDUC M445 - Methods of Teaching Foreign Languages

EDUC M447 - Methods of Teaching High School English

EDUC M448 - Methods of Teaching High School Mathematics

EDUC M449 - Methods of Teaching Science in the Secondary Schools

EDUC M470 - Practicum

EDUC M474 - Undergraduate Seminar in Music Education

EDUC M478 - Methods of Teaching High School Speech

EDUC M480 - Student Teaching in the Secondary School

EDUC M482 - Student Teaching: All Grades

EDUC N343 - Mathematics in the Elementary School

EDUC P249 - Growth and Development in Early Childhood

EDUC P250 - General Educational Psychology

EDUC P251 - Educational Psychology for Elementary Teachers

EDUC P252 - Educational Psychology for Junior High/Middle School Teachers

EDUC P253 - Educational Psychology for Secondary Teachers

EDUC P254 - Educational Psychology for Teachers of All Grades

EDUC Q200 - Introduction to Scientific Inquiry

EDUC Q400 - Man and Environment: Instructional Methods

EDUC S405 - The Middle and Junior High School

EDUC S490 - Research in Secondary Education

EDUC W200 - Using Computers for Education

EDUC W210 - Introduction to Computer- Based Education

EDUC W310 - Computer-Based Teaching Methods

EDUC W410 - Practicum in Computer- Based Education

EDUC X210 - Career Planning

EDUC X401 - Critical Reading in the Content Area

ENG G104 - Language Awareness

ENG G205 - Introduction to the English Language

ENG G206 - Introduction to the Study of Grammar

ENG G301 - History of the English Language

ENG G302 - Structure of Modern English (TESOL)

ENG G310 - Social Speech Patterns

ENG G405 - Studies in English Language

ENG G432 - Second Language Acquisition

ENG L101 - Western World Masterpieces I: Ancient to Renaissance

ENG L102 - Western World Masterpieces II: Renaissance to Modern

ENG L103 - Introduction to Drama

ENG L104 - Introduction to Fiction

ENG L106 - Introduction to Poetry

ENG L107 - Oriental World Masterpieces

ENG L108 - Introduction to Contemporary Literature

ENG L113 - Introduction to African Literature

ENG L150 - Representative American Writers

ENG L202 - Literary Interpretation

ENG L207 - Women and Literature

ENG L220 - Introduction to Shakespeare

ENG L230 - Introduction to Science Fiction

ENG L232 - Topics in Literature and Culture

ENG L250 - American Literature Before 1865

ENG L251 - American Literature Since 1865

ENG L301 - Critical and Historical Survey of English Literature I

ENG L302 - Critical and Historical Survey of English Literature II

ENG L304 - Old English Language and Literature

ENG L305 - Chaucer

ENG L306 - Middle English Literature

ENG L308 - Elizabethan Drama and Its Background

ENG L309 - Elizabethan Poetry

ENG L315 - Major Plays of Shakespeare

ENG L317 - English Poetry of the Early 17th Century

ENG L318 - Milton

ENG L322 - English Literature, 1660-1789

ENG L332 - Romantic Literature

ENG L335 - Victorian Literature

ENG L345 - 20th Century British Poetry

ENG L346 - 20th Century British Fiction

ENG L347 - British Fiction to 1800

ENG L348 - 19th Century British Fiction

ENG L351 - American Literature 1800-1865

ENG L352 - American Literature 1865-1914

ENG L354 - American Literature Since 1914

ENG L355 - American Fiction to 1900

ENG L357 - 20th Century American Poetry

ENG L358 - 20th Century American Fiction

ENG L362 - Modern Drama

ENG L364 - Native American Literature

ENG L366 - Modern Drama: English, Irish, American, and Post-Colonial

ENG L369 - Studies in British and American Authors

ENG L371 - Introduction to Criticism

ENG L372 - Contemporary American Fiction

ENG L378 - Studies in Women and Literature

ENG L379 - American Ethnic and Minority Literature

ENG L381 - Recent Writing

ENG L388 - Studies in Irish Literature and Culture

ENG L390 - Children's Literature

ENG L391 - Literature for Young Adults

ENG L392 - Topics in Children's Literature

ENG L399 - Junior Honors Seminar

ENG L495 - Individual Reading in English

ENG L499 - Senior Independent Study for Honors Students

ENG P131 - Elementary Composition Practicum

ENG R150 - Reading/Learning Techniques I

ENG R151 - Reading/Learning Techniques II

ENG R152 - Reading/Learning Techniques III

ENG R185 - Developmental Reading: Speed Reading

ENG S101 - Honors Western World Masterpieces I: Ancient to Renaissance

ENG S104 - Honors Introduction to Fiction

ENG S108 - Honors Introduction to Contemporary Literature

ENG S203 - Honors Creative Writing

ENG S233 - Honors Intermediate Expository Writing

ENG S233 - Honors Intermediate Expository Writing

ENG S234 - Honors Technical Writing

ENG S331 - Honors Business and Administrative Writing

ENG S390 - Honors Children's Literature

ENG S462 - Honors Studies in Rhetoric and Composition

ENG W103 - Introductory Creative Writing

ENG W115 - Basic English Composition I

ENG W116 - Basic English Composition II

ENG W130 - Principles of Composition

ENG W131 - Elementary Composition I

ENG W140 - Elementary Composition, Honors

ENG W203 - Creative Writing

ENG W232 - Introduction to Business Writing

ENG W233 - Intermediate Expository Writing

ENG W234 - Technical Report Writing

ENG W301 - Writing Fiction

ENG W303 - Writing Poetry

ENG W310 - Language and the Study of Writing

ENG W331 - Business and Administrative Writing

ENG W350 - Advanced Expository Writing

ENG W365 - Theories and Practices of Editing

ENG W367 - Writing for Multiple Media

ENG W372 - Composing the Self

ENG W376 - Writers Reading/Readers Writing

ENG W395 - Individual Study of Writing

ENG W397 - Proseminar for Writing Center Consultants

ENG W398 - Internship in Writing

ENG W400 - Issues in Teaching Writing

ENG W401 - Advanced Fiction Writing

ENG W403 - Advanced Poetry Writing

ENG W405 - Writing Prose - Nonfiction

ENG W420 - Argumentative Writing

ENG W421 - Technical Writing Projects

ENG W425 - Research Methods for Professional Writers

ENG W462 - Studies in Rhetoric and Composition

ENG W490 - Writing Seminar

ENGR 101 - Introduction to Engineering

ENGR 120 - Graphical Communications and Spatial Analysis

ENGR 121 - Computer Tools for Engineers

ENGR 198 - Industrial Practicum

ENGR 199 - Introduction to Engineering Design

ENGR 221 - C and C++ Programming for Engineers

ENGR 410 - Interdisciplinary Senior Engineering Design I

ENGR 411 - Interdisciplinary Senior Engineering Design II

ENTM 206 - General Applied Entomology

ENTM 207 - General Applied Entomology Laboratory

ETCS 101 - Introduction to Engineering, Technology, and Computer Science

FILM K101 - Introduction to Film

FILM K201 - Survey of Film History

FILM K302 - Genre Study in Film

FILM K390 - The Film and Society

FILM S302 - Genre Study in Film - Honors

FINA A170 - Women Artists/The Visual Arts

FINA A270 - Women in the History of Art

FINA A345 - American Art to 1913

FINA A348 - American Architecture

FINA A447 - Modernism and Anti- Modernism in American Art, 1900-1945.

FINA H101 - Art Appreciation

FINA H111 - Ancient and Medieval Art

FINA H112 - Renaissance Through Modern Art

FINA H311 - Art of the Ancient World

FINA H312 - Art of the Medieval World

FINA H313 - Art of the Renaissance and Baroque

FINA H314 - Art of the Modern World

FINA H390 - Topics in Art History

FINA H401 - Art Theory IV

FINA H411 - 19th Century Art I

FINA H412 - 19th Century Art II

FINA H413 - 20th-Century Art: 1900-1924

FINA H414 - 20th Century Art: 1925-Present

FINA H415 - Art of Pre-Columbian America

FINA H490 - Topics in Art History

FINA H495 - Readings and Research in Art History

FINA N108 - Introduction to Drawing for Nonmajors

FINA P121 - Drawing Fundamentals I-II

FINA P122 - Drawing Fundamentals I-II

FINA P151 - Design Fundamentals I-II

FINA P152 - Design Fundamentals I-II

FINA P223 - Figure Drawing I

FINA P225 - Painting Fundamentals I

FINA P231 - Sculpture Fundamentals

FINA P233 - Metalsmithing Fundamentals

FINA P235 - Ceramics Fundamentals

FINA P241 - Printmaking Fundamentals

FINA P321 - Advanced Drawing I

FINA P322 - Advanced Drawing II

FINA P325 - Advanced Painting I

FINA P326 - Advanced Painting II

FINA P331 - Advanced Sculpture I

FINA P332 - Advanced Sculpture II

FINA P333 - Advanced Metalsmithing I

FINA P334 - Advanced Metalsmithing II

FINA P335 - Advanced Ceramics I

FINA P336 - Advanced Ceramics II

FINA P337 - Site Specific Ceramic Artworks: The Design, Construction, and Installation of a Ceramic Artwork

FINA P341 - Advanced Printmaking I

FINA P342 - Advanced Printmaking II

FINA P390 - Topics in Studio Fine Art

FINA P421 - Advanced Drawing III

FINA P422 - Advanced Drawing IV

FINA P425 - Advanced Painting III

FINA P426 - Advanced Painting IV

FINA P431 - Advanced Sculpture III

FINA P432 - Advanced Sculpture IV

FINA P433 - Advanced Metalsmithing III

FINA P434 - Advanced Metalsmithing IV

FINA P435 - Advanced Ceramics III

FINA P436 - Advanced Ceramics IV

FINA P441 - Advanced Printmaking III

FINA P442 - Advanced Printmaking IV

FINA P450 - Senior Project

FINA P490 - Topics in Studio Fine Arts

FINA P495 - Independent Study in Fine Arts

FINA S105 - Introduction to Design

FINA S165 - Ceramics for Nonmajors

FINA S462 - B.F.A. Ceramics: Clay Body and Glaze Preparation

FINA T255 - Crafts and Design

FNN 106 - Profession of Dietetics

FNN 203 - Foods Selection and Preparation

FNN 302 - Nutrition Education

FNN 303 - Essentials of Nutrition

FNR 103 - Introduction to Environmental Conservation

FNR 523 - Aquaculture

FOLK F101 - Introduction to Folklore

FOLK F111 - Introduction to World Folk Music

FOLK F220 - Introduction to American Folklore

FOLK F251 - Folklore Methods and Theories

FOLK F252 - Folklore and the Humanities

FOLK F254 - Social History of Rock and Roll

FOLK F305 - Asian Folklore

FOLK F310 - American Urban and Ethnic Folklore

FOLK F350 - Folklore and Women

FOLK F352 - Native American Folklore

FOLK F354 - African American Folklore/Folklife/FOLK Music

FOLK F378 - Irish Folk Culture

FOLK F391 - Indiana Folklife

FOLK F400 - Individual Study in Folklore

FOLK F404 - Topics in Folklore

FOLK F425 - Folklore in Its Literary Relationships

FOLK F430 - Advanced Study of Folklore and Related Disciplines

FOLK F465 - Ballads and Folksongs

FREN F111 - Elementary French I

FREN F112 - Elementary French II

FREN F113 - First-Year French in One Semester

FREN F203 - Second-Year French I

FREN F204 - Second-Year French II

FREN F213 - Second-Year French Composition

FREN F305 - Chefs-D'Oeuvre de la Litterature Francaise I

FREN F306 - Chefs-D'Oeuvre de la Litterature Francaise II

FREN F310 - Topics in French Literature in Translation

FREN F317 - French Language Skills I

FREN F318 - French Language Skills II

FREN F325 - Oral French for Teachers

FREN F326 - French in the Business World

FREN F330 - Introduction to Translating French and English

FREN F356 - Introduction to French Cinema

FREN F408 - Women in French Literature

FREN F410 - French Literature of the Middle Ages

FREN F413 - The French Renaissance

FREN F423 - Tragedie Classique

FREN F424 - Comedie Classique

FREN F425 - Prose et Poesie du Dix- Septieme Siecle

FREN F442 - La Poesie Francaise et Francophone

FREN F443 - 19th Century Novel I

FREN F444 - 19th Century Novel II

FREN F446 - Poesie du Dix-Neuvieme Siecle

FREN F450 - Colloquium in French Studies

FREN F453 - Litterature Contemporaine I

FREN F454 - Litterature Contemporaine II

FREN F459 - L'Autobiographie

FREN F460 - French Fiction in Film

FREN F463 - Civilisation Francaise I

FREN F464 - Civilisation Francaise II

FREN F495 - Individual Reading in French Literature

FREN F498 - Foreign Study in France

FREN W300 - Methods of Research and Criticism

FREN W399 - Internship in Modern Foreign Language

FWAS H201 - Humanities I: The Ancient World

FWAS H202 - Humanities II: Foundations of the Modern Western World

FWAS 111 - IDS Natural Science I

FWAS 112 - IDS Natural Science II

FWAS 201 - Humanities I: The Ancient World

FWAS 202 - Humanities II: Foundations of the Modern Western World

GEOG G107 - Physical Systems of the Environment

GEOG G109 - Weather and Climate

GEOG G237 - Cartography and Geographic Information

GEOG G315 - Environmental Conservation

GEOL G100 - General Geology

GEOL G103 - Earth Science: Materials and Processes

GEOL G104 - Earth Science: Evolution of the Earth

GEOL G108 - Selected Earth Science Topics

GEOL G113 - Directed Study in Earth Science

GEOL G210 - Oceanography

GEOL G211 - Introduction to Paleobiology

GEOL G221 - Introductory Mineralogy

GEOL G222 - Introduction to Petrology

GEOL G300 - Environmental and Urban Geology

GEOL G305 - Geologic Fundamentals in Earth Science

GEOL G319 - Elementary Field Geology

GEOL G323 - Structural Geology

GEOL G334 - Principles of Sedimentology and Stratigraphy

GEOL G406 - Introduction to Geochemistry

GEOL G410 - Undergraduate Research in Geology

GEOL G411 - Invertebrate Paleontology

GEOL G412 - Introduction to Vertebrate Paleontology

GEOL G415 - Geomorphology

GEOL G420 - Regional Geology Field Trip

GEOL G425 - Scanning Electron Microscopy

GEOL G427 - Introduction to X-ray Mineralogy

GEOL G429 - Field Geology in the Rocky Mountains

GEOL G451 - Principles of Hydrogeology

GEOL G490 - Undergraduate Seminar

GEOL G499 - Honors Research in Geology Max.

GEOL L100 - General Geology Laboratory

GEOL S100 - General Geology (Honors)

GEOL S100 - General Geology (Honors)

GEOL S104 - Honors Earth Science: Evolution of the Earth

GEOL S222 - Honors Introduction to Petrology

GEOL S305 - Honors Fundamentals in Earth Science

GEOL S305 - Honors Fundamentals in Earth Science

GER G111 - Elementary German I

GER G112 - Elementary German II

GER G113 - First-Year German in One Semester

GER G203 - Second-Year German I

GER G204 - Second-Year German II

GER G305 - Introduction to German Literature: Types

GER G306 - Introduction to German Literature: Themes

GER G307 - Selected Works of Contemporary German Literature

GER G315 - Business German

GER G318 - German Language Skills I

GER G319 - German Language Skills II

GER G325 - German for Teachers

GER G362 - Deutsche Landeskunde

GER G363 - Deutsche Kulturgeschichte

GER G404 - Deutsche Literatur: Seit Der Romantik

GER G405 - Goethe: Life and Works

GER G411 - Advanced German: Grammar

GER G412 - Advanced German: Composition

GER G415 - Perspectives on German Literature

GER G422 - 19th Century German Literature

GER G425 - 20th Century German Literature

GER G452 - Senior Seminar

GER G463 - German Culture

GER G464 - Kultur Und Gesellschaft

GER G470 - German Folklore

GER G495 - Individual Readings in Germanic Literatures

GER W300 - Methods of Research and Criticism

GER W399 - Internship in Modern Foreign Languages

GERN G231 - Introduction to Gerontology

HIST A301 - Colonial and Revolutionary America I

HIST A302 - Colonial and Revolutionary America II

HIST A303 - The United States from 1789 to 1865 I

HIST A304 - The United States from 1789 to 1865 II

HIST A308 - American Business History

HIST A309 - The South Before the Civil War

HIST A310 - Survey of American Indians I

HIST A311 - Survey of American Indians II

HIST A313 - Origins of Modern America

HIST A314 - Recent U.S. History I, 1917-1945

HIST A315 - Recent U.S. History II, 1945-Present

HIST A318 - The American West

HIST A345 - American Diplomatic History I

HIST A346 - American Diplomatic History II

HIST A349 - Afro-American History

HIST A351 - The United States in World War II

HIST A382 - The Sixties

HIST B351 - Western Europe in the Early Middle Ages

HIST B352 - Western Europe in the High/Late Middle Ages

HIST B355 - Europe: Louis XIV to French Revolution

HIST B361 - Europe in the 20th Century I

HIST B378 - History of Germany II

HIST C388 - Roman History

HIST C390 - The Decline and Fall of the Roman Empire

HIST C392 - History of Modern Near East

HIST C393 - Ottoman History

HIST D410 - Russian Revolutions and the Soviet Regime

HIST D426 - History of Balkans: 1914 to Present

HIST E331 - African History from Ancient Times to Empires and City States

HIST E332 - African History from Colonial Rule to Independence

HIST F341 - Latin America: Conquest and Empire

HIST F342 - Latin America: Evolution and Revolution

HIST F346 - Modern Mexico

HIST F416 - History of Slavery in the Americas

HIST F431 - 19th Century Latin American Intellectual History

HIST F432 - 20th Century Latin American Revolutions

HIST F447 - U.S.-Latin American Relations

HIST H105 - American History I

HIST H106 - American History II

HIST H113 - History of Western Civilization I

HIST H114 - History of Western Civilization II

HIST H201 - Russian Civilization I-II

HIST H202 - Russian Civilization I-II

HIST H205 - Ancient Civilization

HIST H217 - The Nature of History

HIST H222 - Renaissance and Reformation Europe

HIST H225 - Special Topics in History

HIST H232 - The World in the 20th Century

HIST H260 - History of Women in the United States

HIST H496 - Internship in History

HIST J495 - Proseminar for History Majors

HIST K499 - Senior Honors Thesis

HIST S105 - American History: Honors Survey I

HIST S105 - American History: Honors Survey I

HIST S106 - American History: Honors Survey II

HIST S106 - American History: Honors Survey II

HIST S113 - Honors History of Western Europe I

HIST S113 - Honors History of Western Europe I

HIST S114 - Honors History of Western Europe II

HIST S232 - The World in the 20th Century - Honors

HIST T325 - Topics in History

HIST T335 - Topics in Non-Western History

HIST T425 - Topics in History

HIST T426 - Topics in History

HIST T495 - Undergraduate Reading in History

HON H100 - Freshman Honors Seminar

HON H101 - Ideas and Human Experience

HON H150 - Honors H-Option Contract

HON H200 - Interdepartmental Colloquium - Humanities

HON H201 - Interdepartmental Colloquium - Sciences

HON H202 - Interdepartmental Colloquium - Natural and Math Sciences

HON H250 - Honors H-Option Contract

HON H300 - Interdepartmental Colloquium

HON H301 - Interdepartmental Colloquium

HON H302 - Interdepartmental Colloquium

HON H350 - Honors H-Option Contract

HON H399 - Honors Independent Study

HON H450 - Honors H-Option Contract

HORT 101 - Fundamentals of Horticulture

HPER A361 - Coaching of Football

HPER A362 - Coaching of Basketball

HPER A363 - Coaching of Baseball

HPER A364 - Coaching of Track and Field

HPER A368 - Coaching of Tennis

HPER A370 - Coaching of Soccer

HPER A371 - Coaching of Volleyball

HPER A383 - Therapeutic Management of Sports Injuries

HPER A480 - Care and Prevention of Athletic Injuries

HPER A483 - Principles of Sports Officiating

HPER A484 - Inter-Scholastic Athletic Programs

HPER E105 - Badminton

HPER E111 - Basketball

HPER E113 - Billiards

HPER E117 - Bowling

HPER E119 - Conditioning

HPER E133 - Fitness and Jogging I

HPER E135 - Golf

HPER E139 - Handball

HPER E148 - T'ai Chi Ch'uan

HPER E150 - Karate

HPER E151 - Self-Defense

HPER E155 - Modern Dance

HPER E159 - Racquetball

HPER E165 - Soccer

HPER E168 - Swimming for Nonswimmers

HPER E181 - Tennis

HPER E185 - Volleyball

HPER E186 - Wall Volleyball

HPER E190 - Yoga I

HPER E211 - Advanced Basketball

HPER E217 - Bowling - Intermediate

HPER E233 - Fitness and Jogging II

HPER E250 - Karate - Intermediate

HPER E255 - Modern Dance - Intermediate

HPER E259 - Racquetball - Intermediate

HPER E268 - Swimming - Intermediate

HPER E281 - Tennis - Intermediate

HPER E285 - Advanced Volleyball

HPER E290 - Yoga II

HPER H160 - First Aid

HPER P122 - Performance of Team Sports

HPER P240 - Foundations of Physical Education

HPER P280 - Principles of Athletic Training and Emergency Care

HPER P397 - Kinesiology

HPER P409 - Physiology of Exercise

HPER P450 - Principles and Psychology of Coaching

HPER R160 - Man, His Leisure, and Recreation

HPER R180 - Recreation Leadership

HPER R399 - Practicum in Parks and Recreation

HSC 100 - Introduction to Health Professions

HSC 499 - Special Topics in Health Sciences

HSRV 100 - Introduction to Human Services

HSRV 103 - Helping Relationship Techniques

HSRV 105 - Basic Interviewing Skills

HSRV 211 - The Dynamics of Group Behavior

HSRV 299 - Human Services

HSRV 315 - Introduction to Theories and Therapies

HSRV 320 - Case Methods

HSRV 325 - Current Trends in Psychosocial Rehabilitation

HSRV 330 - Psychopharmacology for Human Services

HSRV 350 - Drugs and Society

HSRV 369 - Wellness and Stress Management

HSRV 399 - Special Topics

HSRV 400 - Internship I

HSRV 401 - Internship Seminar I

HSRV 420 - Substance Abuse Prevention

HSRV 450 - Internship II

HSRV 451 - Internship Seminar II

HTM 100 - Introduction to the Hospitality and Tourism Industry

HTM 181 - Lodging Management

HTM 191 - Sanitation and Health in Foodservice, Lodging, and Tourism

HTM 212 - Organization and Management in the Hospitality and Tourism Industry

HTM 231 - Hospitality and Tourism Marketing

HTM 251 - Computers in the Hospitality Industry

HTM 291 - Quantity Food Production and Service

HTM 291L - Quantity Food Production and Service Labs

HTM 301 - Hospitality and Tourism Industry Practicum

HTM 302 - Hospitality and Tourism Industry Internship

HTM 311 - Procurement Management for Foodservice

HTM 312 - Human Resources Management for the Service Industries

HTM 314 - Franchising

HTM 315 - Club Management and Operations

HTM 316 - Casino Management

HTM 321 - Equipment for Restaurants, Hotels, and Institutions

HTM 322 - Hospitality Facilities Management

HTM 323 - Foodservice Layout and Design

HTM 341 - Cost Controls in Foodservice and Lodging

HTM 371 - Introduction to Tourism

HTM 383 - Resort, Cruise, and Entertainment Operations

HTM 391 - Specialty Foodservice and Catering

HTM 411 - Hospitality and Tourism Law

HTM 491 - Beverage Management

HTM 492 - Advanced Foodservice Management

IDIS G102 - Freshman Seminar/Physical and Natural World

IDIS G103 - Freshman Seminar/The Individual, Culture, and Society

IDIS G104 - Freshman Seminar/ Humanistic Thought

IDIS 100 - Freshman Honors Seminar

IDIS 110 - Freshman Success Course

IDIS 115 - Career Beginnings

IDIS 199 - Freshman Learning Community

IDIS 200 - Interdepartmental Colloquium

IDIS 299 - Honors Tutorial

IDIS 299 - Honors Tutorial

IDIS 300 - Interdepartmental Colloquium

IDIS 300 - Interdepartmental Colloquium

IDIS 399 - Honors Independent Study

IDIS 399 - Honors Independent Study

IET 105 - Industrial Management

IET 204 - Techniques of Maintaining Quality

IET 224 - Production Planning and Control

IET 257 - Ergonomics

IET 267 - Work Methods Design

IET 274 - Industrial Practice I

IET 275 - Industrial Practice II

IET 299 - Industrial Engineering Technology

IET 304 - Advanced Metrology

IET 310 - Plant Layout and Material Handling

IET 350 - Engineering Economy

IET 362 - Technological Optimization

IET 369 - Manufacturing Simulation

IET 375 - Industrial Practice III

IET 376 - Industrial Practice IV

IET 401 - Manufacturing Process Planning

IET 454 - Statistical Process Control

IET 475 - Industrial Practice V

IET 480 - Cost Estimating and Design

IET 499 - Industrial Engineering Technology

IM 105 - Introduction to Informatics

IM 210 - Problem Solving and Programming for Informatics

IM 220 - Database Applications for Informatics

IM 230 - Informatics Infrastructure

IM 310 - Problem Solving and Programming for Informatics

IM 330 - Information Retrieval and Presentation

IM 370 - Network Design and Management for Informatics

IM 380 - HCI Design for Informatics

IM 450 - Informatics Design Project

INTL I200 - Introduction to International Studies: Emerging Global Visions

INTL I208 - International Cinema

INTR 111 - Introduction to Interior Design

INTR 112 - Residential Interior Design II

INTR 121 - Freehand Sketching

INTR 123 - Perspective Drawing

INTR 131 - Decorative Materials and Accessories I

INTR 132 - Decorative Materials and Accessories II

INTR 201 - CAD for Interior Design

INTR 206 - Portfolio and Professional Presentation

INTR 220 - Architecture and Urban Form

INTR 241 - Lighting and Color Design

INTR 299 - Interior Design

INTR 306 - Interior and Furniture Styles I

INTR 307 - Interior and Furniture Styles II

INTR 308 - Contract Interior Design I

INTR 309 - Contract Interior Design II

INTR 310 - Interior Design Travel

INTR 320 - Architecture and Urban Form in the Modern World

INTR 330 - Culture and Design: A Cross-Culture Comparison of Architecture

INTR 400 - Interior Design Studio I

INTR 402 - Professional Practice

INTR 403 - Interior Design Details

INTR 404 - Interior Design Practicum

JOUR C200 - Mass Communications

JOUR C201 - Topics in Journalism

JOUR C300 - Citizen and the News

JOUR C327 - Writing for Publication

JOUR J110 - Foundations of Journalism and Mass Communication

JOUR J200 - Reporting, Writing and Editing I

JOUR J20I - Reporting, Writing, and Editing II

JOUR J210 - Visual Communication

JOUR J219 - Introduction to Public Relations

JOUR J280 - Sophomore Seminar in Journalism

JOUR J290 - Internship in Journalism

JOUR J300 - Communications Law

JOUR J310 - Editorial Practices

JOUR J315 - Feature Writing

JOUR J320 - Principles of Creative Advertising

JOUR J321 - Principles of Public Relations

JOUR J337 - Media Economics

JOUR J351 - Newspaper Editing

JOUR J360 - Journalism Specialties

JOUR J390 - Corporate Publications

JOUR J413 - Magazine Article Writing

JOUR J425 - Supervision of School Publications

JOUR J427 - Public Relations in a Democratic Society

JOUR J492 - Media Internship

LING L103 - Introduction to the Study of Language

LING L303 - Introduction to Linguistic Analysis

LING L307 - Phonology

LING L310 - Syntax

LING L321 - Methods and Materials for TESOL I

LING L322 - Methods and Materials for TESOL II

LING L325 - Semantics

LING L360 - Language in Society

LING L366 - Linguistics and Adjacent Arts and Sciences

LING L430 - Language Change and Variation

LING L431 - Field Methods

LING L470 - TENL Practicum

LING L485 - Topics in Linguistics

LING L490 - Linguistic Structures

LING S103 - Honors Introduction to the Study of Language

LSTU L100 - Survey of Unions and Collective Bargaining

LSTU L101 - American Labor History

LSTU L110 - Introduction to Labor Studies: Labor and Society

LSTU L190 - The Labor Studies Degree

LSTU L199 - Portfolio Development Workshop

LSTU L200 - Survey of Employment Law

LSTU L201 - Labor Law

LSTU L203 - Labor and the Political System

LSTU L205 - Contemporary Labor Problems

LSTU L210 - Workplace Discrimination and Fair Employment

LSTU L220 - Grievance Representation

LSTU L230 - Labor and the Economy

LSTU L240 - Occupational Health and Safety

LSTU L250 - Collective Bargaining

LSTU L251 - Collective Bargaining Laboratory

LSTU L255 - Unions in State and Local Government

LSTU L260 - Leadership and Representation

LSTU L270 - Union Government and Organization

LSTU L280 - Union Organizing

LSTU L285 - Assessment Project

LSTU L290 - Topics in Labor Studies

LSTU L299 - Self-Acquired Competencies, Labor Studies

LSTU L315 - The Organization of Work

LSTU L320 - Grievance Arbitration

LSTU L350 - Issues in Collective Bargaining

LSTU L360 - Union Administration and Development

LSTU L375 - Comparative Labor Movements

LSTU L380 - Theories of the Labor Movement

LSTU L385 - Class, Race, Gender, and Work

LSTU L390 - Topics in Labor Studies

LSTU L420 - Labor Studies Internship

LSTU L430 - Labor Research Methods

LSTU L480 - Seminar on Labor Education

LSTU L490 - Topics in Labor Studies

LSTU L495 - Directed Labor Study

LSTU L499 - Self-Acquired Competencies, Labor Studies

MA 9 - Topics In Elementary Algebra

MA 13 - Topics in Intermediate Algebra

MA 91 - Professional Practicum I

MA 92 - Professional Practicum II

MA 93 - Professional Practicum III

MA 94 - Professional Practicum IV

MA 95 - Professional Practicum V

MA 101 - Mathematics for Elementary Teachers I

MA 102 - Mathematics for Elementary Teachers II

MA 103 - Mathematics for Elementary Teachers III

MA 109 - Elementary Algebra

MA 113 - Intermediate Algebra

MA 149 - Basic and College Algebra

MA 151 - Algebra and Trigonometry

MA 153 - Algebra and Trigonometry I

MA 154 - Algebra and Trigonometry II

MA 159 - Precalculus

MA 163H - Honors Integrated Calculus and Analytic Geometry I

MA 164H - Honors Integrated Calculus and Analytic Geometry II

MA 165 - Analytic Geometry and Calculus I

MA 166 - Analytic Geometry and Calculus II

MA 168 - Mathematics for the Liberal Arts Student

MA 175 - Introductory Discrete Mathematics

MA 213 - Finite Mathematics I

MA 227 - Calculus for Technology I

MA 228 - Calculus for Technology II

MA 229 - Calculus for the Managerial, Social, and Biological Sciences I

MA 230 - Calculus for the Managerial, Social, and Biological Sciences II

MA 261 - Multivariate Calculus

MA 263 - Multivariate and Vector Calculus

MA 275 - Intermediate Discrete Math

MA 305 - Foundations of Higher Mathematics

MA 314 - Introduction to Mathematical Modeling

MA 321 - Applied Differential Equations

MA 351 - Elementary Linear Algebra

MA 363 - Differential Equations

MA 417 - Mathematical Programming

MA 418 - Computations Laboratory for MA 417

MA 441 - Real Analysis

MA 453 - Elements of Algebra

MA 490 - Topics in Mathematics for Undergraduates

MA 510 - Vector Calculus

MA 511 - Linear Algebra with Applications

MA 521 - Introduction to Optimization Problems

MA 523 - Introduction to Partial Differential Equations

MA 525 - Introduction to Complex Analysis

MA 540 - Analysis I

MA 541 - Analysis II

MA 553 - Introduction to Abstract Algebra

MA 554 - Linear Algebra

MA 556 - Introduction to the Theory of Numbers

MA 560 - Fundamental Concepts of Geometry

MA 571 - Elementary Topology

MA 575 - Graph Theory

MA 580 - History of Mathematics

MA 581 - Introduction to Logic for Teachers

MA 598 - Topics in Mathematics

ME 200 - Thermodynamics I

ME 250 - Statics

ME 251 - Dynamics

ME 252 - Strength of Materials

ME 282 - Measurements and Instrumentation

ME 285 - Industrial Practice I

ME 286 - Industrial Practice II

ME 287 - Industrial Practice III

ME 288 - Industrial Practice IV

ME 289 - Industrial Practice V

ME 301 - Thermodynamics II

ME 303 - Material Science and Engineering

ME 304 - Mechanics and Materials Laboratory

ME 318 - Fluid Mechanics

ME 319 - Fluid Mechanics Laboratory

ME 321 - Heat Transfer

ME 322 - Heat Transfer Laboratory

ME 361 - Kinematics and Dynamics of Machinery

ME 369 - Machine Design

ME 371 - System Dynamics and Introduction to Control

ME 373 - Numerical Methods for Engineers

ME 387 - Electronics and System Engineering through Robotics

ME 387 - Electronics and System Engineering through Robotics

ME 388 - Electronics and System Engineering through Robotics

ME 388 - Electronics and System Engineering through Robotics Lab

ME 421 - Heating and Air Conditioning I

ME 424 - Design and Optimization of Thermal Systems

ME 425 - Intermediate Heat Transfer: Theory and Applications

ME 453 - Experimental Stress Analysis

ME 454 - Intermediate Dynamics with Computer Applications

ME 469 - Advanced Mechanics of Materials

ME 471 - Vibration Analysis

ME 480 - Finite Element Analysis

ME 487 - Mechanical Engineering Design I

ME 488 - Mechanical Engineering Design II

ME 497 - Mechanical Engineering Projects

ME 498 - Research in Mechanical Engineering I

ME 499 - Research in Mechanical Engineering II

MET 104 - Technical Graphics Communications

MET 106 - Analytical and Computational Tools in MET

MET 180 - Materials and Processes

MET 201 - Statics, Stress, and Strain

MET 202 - Strength of Materials

MET 216 - Machine Elements

MET 223 - Introduction to Computer- Aided Modeling and Design

MET 247 - Computer-Aided Tool and Fixture Design

MET 275 - Industrial Practice I

MET 276 - Industrial Practice II

MET 295 - Industrial Practicum

MET 299 - Mechanical Engineering Technology

MET 300 - Applied Thermodynamics

MET 312 - Dynamics and Mechanisms

MET 330 - Introduction to Fluid Power

MET 335 - Basic Machining

MET 347 - Programming of Automation Systems

MET 350 - Applied Fluid Mechanics

MET 360 - Heating, Ventilating, and Air Conditioning

MET 375 - Industrial Practice III

MET 376 - Industrial Practice IV

MET 381 - Engineering Materials

MET 475 - Industrial Practice V

MET 487 - Instrumentation and Automatic Control

MET 494 - Senior Design and Analysis

MET 499 - Mechanical Engineering Technology

MSL 101 - Foundation Officership

MSL 102 - Basic Leadership

MSL 120 - Reading Military Maps Survival Skills

MSL 201 - Individual Leadership

MSL 202 - Leadership and Teamwork

MSL 301 - Leadership and Problem Solving

MSL 302 - Leadership and Ethics

MSL 401 - Leadership and Management

MSL 402 - Officership

MSL 490 - Directed Study In Military Science

MUS A410 - Violin Undergraduate Major

MUS A420 - Viola Undergraduate Major

MUS B110–B410 - French Horn

MUS B120–B420 - Trumpet and Cornet

MUS B130–B430 - Trombone

MUS B140–B440 - Baritone Horn

MUS B150 - Tuba

MUS B410 - Horn Undergraduate Major

MUS B420 - Trumpet and Cornet Undergraduate Major

MUS B430 - Trombone Undergraduate Major

MUS B440 - Euphonium Undergraduate Major

MUS B450 - Tuba

MUS D100 - Percussion

MUS D400 - Percussion

MUS D700 - Percussion

MUS E193 - Piano Pedagogy I

MUS E194 - Piano Pedagogy II

MUS E253 - Functional Music Skills

MUS E293 - Piano Pedagogy III

MUS E294 - Piano Pedagogy IV

MUS E353 - Orff and Percussion Techniques for Music Therapy

MUS E400 - Undergraduate Readings in Music Education

MUS E459 - Instrumental Pedagogy

MUS E490 - Psychology of Music Teaching

MUS E493 - Piano Pedagogy

MUS E494 - Voice Pedagogy

MUS F316 - Jazz Arranging I

MUS F321 - Jazz Improvisation

MUS F419 - Special Topics

MUS G261 - String Techniques

MUS G272 - Clarinet and Saxophone Techniques

MUS G281 - Brass Instrument Techniques

MUS G337 - Woodwind Techniques

MUS G338 - Percussion Techniques

MUS G370 - Techniques for Conducting

MUS G371 - Choral Conducting I

MUS G373 - Instrumental Conducting

MUS H100 - Harp

MUS H300 - Harp

MUS K131 - Composition Workshop I

MUS K132 - Composition Workshop II

MUS K312 - Arranging for Instrumental and Vocal Groups

MUS K416 - Jazz Arranging I

MUS L100 - Guitar

MUS L153 - Introduction to Music Therapy

MUS L253 - Music Therapy Observation Practicum

MUS L254 - Music Therapy Practicum I

MUS L300 - Guitar

MUS L340 - Music Therapy in Healthcare Settings

MUS L353 - Music Therapy Practicum II

MUS L354 - Music Therapy Practicum III

MUS L410 - Administrative and Professional Issues in Music Therapy

MUS L418 - Psychology of Music

MUS L419 - Introduction to Music Therapy Research Methods

MUS L420 - Clinical Processes in Music Therapy

MUS L421 - Music Therapy Practicum IV

MUS L422 - Music Therapy Theories and Techniques

MUS L423 - Advanced Music Therapy Practicum

MUS L424 - Music Therapy Internship

MUS M201 - Music Literature I

MUS M202 - Music Literature II

MUS M216 - Music Education Lab/Field Experience

MUS M236 - Introduction to Music Education

MUS M317 - Music Education Lab/Field Experience

MUS M318 - Music Education Lab/Field Experience

MUS M319 - Music Education Lab/Field Experience

MUS M337 - Methods and Materials for Teaching Instrumental Music

MUS M338 - Methods and Materials for Teaching Choral Music

MUS M339 - General Music Methods K-8

MUS M400 - Undergraduate Readings in Musicology

MUS M403 - History of Music I

MUS M404 - History of Music II

MUS M411 - History of Music in the Americas

MUS M431 - Song Literature

MUS M443 - Survey of Keyboard Literature

MUS M445 - Instrumental Literature

MUS N101 - Music for the Listener - Honors

MUS P100 - Piano

MUS P110 - Piano Class, Non-music Majors

MUS P111 - Class Piano I

MUS P121 - Class Piano II

MUS P131 - Class Piano III

MUS P141 - Class Piano IV

MUS P210 - Keyboard Skills

MUS P211 - Keyboard Techniques

MUS P400 - Piano Undergraduate Major

MUS P800 - Piano

MUS Q100 - Organ

MUS Q300 - Organ

MUS R151 - Introduction to Musical Theatre

MUS R453 - Project in Opera Stage Direction

MUS S110 - Violin

MUS S120 - Viola

MUS S130 - Cello

MUS S140–S440 - String Bass

MUS S430 - Cello Undergraduate Major

MUS S440 - Double Bass Undergraduate Major

MUS S810 - Violin

MUS S820 - Viola

MUS S830 - Cello

MUS T109 - Rudiments of Music I

MUS T113 - Music Theory I

MUS T114 - Music Theory II

MUS T115 - Sightsinging and Aural Perception I

MUS T116 - Sightsinging and Aural Perception II

MUS T213 - Music Theory III

MUS T214 - Music Theory IV

MUS T215 - Sightsinging and Aural Perception III

MUS T216 - Sightsinging and Aural Perception IV

MUS T315 - Analysis of Musical Form

MUS T400 - Undergraduate Readings in Theory

MUS U109 - Computer Skills for Musicians

MUS U233 - Applied French Diction for Singers

MUS U243 - Applied German Diction for Singers

MUS U253 - Applied Italian Diction for Singers

MUS U354 - Introduction to Creative Arts Therapies

MUS U355 - Music and Exceptionality

MUS U356 - Creative Arts and Early Childhood

MUS U357 - Music in Special Education

MUS U361 - English Diction for Singers

MUS U410 - Creative Arts, Health, and Wellness

MUS V100 - Voice

MUS V201 - Voice Class

MUS V800 - Voice

MUS W110 - Flute and Piccolo

MUS W120 - Oboe and English Horn

MUS W130 - Clarinet

MUS W140 - Bassoon

MUS W150 - Saxophone

MUS W320 - Oboe and English Horn

MUS W410 - Flute and Piccolo

MUS W410 - Flute and Piccolo Undergraduate Major

MUS W420 - Oboe and English Horn

MUS W420 - Oboe and English Horn Undergraduate Major

MUS W430 - Clarinet Undergraduate Major

MUS W440 - Bassoon

MUS W440 - Bassoon Undergraduate Major

MUS W450 - Saxophone Undergraduate Major

MUS W710 - Flute and Piccolo

MUS W730 - Clarinet

MUS W750 - Saxophone

MUS X002 - Piano Accompanying

MUS X040 - University Instrumental Ensembles

MUS X070 - University Choral Ensembles

MUS X095 - Performance Class

MUS X296 - Applied Music Upper Divisional Jury Examination

MUS X297 - Music Education Upper Divisional Skills Examination

MUS X298 - Music Therapy Upper Divisional Skills Examination

MUS X299 - Piano Proficiency Examination

MUS X301 - Recital: Concentration Level

MUS X341 - Guitar Ensemble

MUS X401 - Junior Recital: Performance Major

MUS X402 - Senior Recital: Performance Major

MUS X420 - Brass Ensemble

MUS X425 - Early Music Chamber Ensemble

MUS X450 - String Instrument Ensembles

MUS X460 - Woodwind Ensembles

MUS X470 - Opera Ensemble

MUS X490 - Percussion Ensembles

MUS Y110 - Early Instruments, Early Voice

MUS Z101 - Music for the Listener

MUS Z102 - Music for the Listener

MUS Z105 - Traditions in World Music

MUS Z140 - Introduction to Musical Expression

MUS Z201 - History of Rock and Roll Music

MUS Z241 - Introduction to Music Fundamentals

MUS Z393 - History of Jazz

NELC A100 - Elementary Arabic I

NELC A150 - Elementary Arabic II

NELC A200 - Intermediate Arabic I

NELC A250 - Intermediate Arabic II

NUR 100 - Guided Readings in Nursing

NUR 103 - Professional Seminar I

NUR 106 - Medical Terminology

NUR 115 - Nursing I: Introduction to Nursing

NUR 117 - Associate Science Degree in Nursing Mobility Seminar

NUR 130 - Essential Clinical Skills

NUR 202 - Nursing II: Medical-Surgical Nursing of Adults

NUR 224 - Nursing IIIA (Medical-Surgical Nursing of Adults)

NUR 225 - Maternity Nursing

NUR 240 - Psychiatric Mental Health Nursing

NUR 245 - Basic Cardiac Dysrhythmias

NUR 281 - Nursing Issues and Manager of Care

NUR 290 - Guided Study

NUR 295 - Concepts in Critical Thinking

NUR 309 - Transcultural Healthcare

NUR 311 - Intravenous Therapy

NUR 319 - Alternative and Complementary Therapies

NUR 329 - Health Law and Finance

NUR 334 - Clinical Pathophysiology

NUR 336 - Nursing IIIB: Medical-Surgical Nursing of Adults

NUR 337 - Statistics and Data Management in Health Sciences

NUR 338 - Concepts in Nursing

NUR 339 - Research in Healthcare

NUR 341 - Health Assessment

NUR 342 - Leadership in Nursing

NUR 344 - Introduction to Healthcare Informatics

NUR 345 - Trauma Nursing

NUR 346 - Advanced Health Assessment

NUR 359 - Disaster Nursing

NUR 369 - Wellness and Stress Management

NUR 377 - Professional Seminar II

NUR 379 - Caring for Children and Families

NUR 399 - Special Topics

NUR 418 - Community/Public Health Nursing

NUR 419 - Advanced Acute Care Nursing

NUR 423 - Professional Seminar III

NUR 433 - Advanced Concepts in Critical Thinking

NUR 434 - Advanced Nursing

NUR 442 - Leadership in Nursing

NUR 445 - Seminar in Professional Nursing

OLS 121 - Keyboarding

OLS 211 - Professional Practice I

OLS 212 - Professional Practice II

OLS 252 - Human Relations in Organizations

OLS 262 - Practical Applications for Supervisors

OLS 268 - Elements of Law

OLS 274 - Applied Leadership

OLS 280 - Computer Applications for Supervisors

OLS 295 - Leadership Practicum

OLS 311 - Professional Practice III

OLS 312 - Professional Practice IV

OLS 320 - Customer Service and Commitment

OLS 324 - Advanced Word Processing, Desktop Publishing, Presentation Graphics

OLS 326 - Comprehensive Spreadsheet Concepts,

OLS 329 - Comprehensive Database Management Concepts,

OLS 331 - Occupational Safety and Health

OLS 342 - Interviewing Strategies in Organizations

OLS 350 - Applied Creativity for Business and Industry

OLS 351 - Innovation and Entrepreneurship

OLS 361 - Safety Department Supervision

OLS 362 - Cooperative Occupational Internship

OLS 364 - Professional Development Program

OLS 365 - Leading Virtual Teams

OLS 370 - Managing Job Stress and Health

OLS 375 - Training Methods

OLS 376 - Human Resources Issues

OLS 378 - Labor Relations

OLS 384 - Leadership Process

OLS 395 - Leadership Practicum

OLS 399 - Special Topics

OLS 410 - Survival Skills in Organizational Careers

OLS 411 - Professional Practice V

OLS 454 - Gender and Diversity in Management

OLS 468 - Personnel Law

OLS 474 - Conference Leadership

OLS 475 - Topics: Contemporary Supervisory Training Issues

OLS 476 - Compensation Planning and Management

OLS 477 - Conflict Management

OLS 479 - Staffing Organizations

OLS 484 - Leadership Strategies for Quality and Productivity

OLS 485 - Leadership for Team Development

OLS 486 - Leadership: Management of Change

OLS 487 - Leadership Philosophy

OLS 490 - Senior Research Project

OLS 495 - Leadership Practicum

PACS P200 - Introduction to Peace and Conflict Studies - Humanities Perspectives

PACS P201 - Introduction to Peace and Conflict Studies - Social/Behavioral Sciences Perspectives

PACS P497 - Humanities Readings and Research in Peace and Conflict Studies

PACS P498 - Social and Behavioral Sciences Readings and Research in Peace and Conflict Studies

PACS P499 - Social and Behavioral Sciences Internship in Peace and Conflict Studies

PCTX 201 - Introductory Pharmacology

PHIL 110 - Introduction to Philosophy

PHIL 111 - Ethics

PHIL 111H - Ethics - Honors

PHIL 112 - Religion and Culture

PHIL 120 - Critical Thinking

PHIL 150 - Principles of Logic

PHIL 206 - Philosophy of Religion

PHIL 240 - Social and Political Philosophy

PHIL 240 - Social and Political Philosophy

PHIL 245 - Introduction to Judaism

PHIL 250 - Inductive Logic

PHIL 260 - Philosophy and Law

PHIL 275 - The Philosophy of Art

PHIL 301 - History of Ancient Philosophy

PHIL 302 - History of Medieval Philosophy

PHIL 303 - History of Modern Philosophy

PHIL 304 - 19th Century Philosophy

PHIL 305 - Philosophical Theories of Feminism

PHIL 312 - Medical Ethics

PHIL 326 - Business Ethics

PHIL 327 - Environmental Ethics

PHIL 328 - Ethics and Animals

PHIL 330 - Religions of the East

PHIL 331 - Religions of the West

PHIL 351 - Philosophy of Science

PHIL 425 - Metaphysics

PHIL 431 - Contemporary Religious Thought

PHIL 432 - Theory of Knowledge

PHIL 435 - Philosophy of Mind

PHIL 450 - Symbolic Logic

PHIL 480 - Practicum in Applied Ethics

PHIL 493 - Interdisciplinary Undergraduate Seminar

PHIL 510 - Phenomenology

PHIL 514 - 20th Century Analytical Philosophy I

PHIL 515 - 20th Century Analytical Philosophy II

PHIL 524 - Contemporary Ethical Theory

PHIL 525 - Studies in Metaphysics

PHIL 530 - Deconstructionist and Postmodernist Philosophy

PHIL 575 - Problems in Esthetics

PHIL 580 - Proseminar in Philosophy

PHIL 590 - Directed Readings in Philosophy

PHYS 91 - Professional Practice I

PHYS 92 - Professional Practice II

PHYS 93 - Professional Practice III

PHYS 94 - Professional Practice IV

PHYS 95 - Professional Practice V

PHYS 105 - Sound and Music

PHYS 115 - Introduction to Lasers

PHYS 120 - Physics of Sports

PHYS 125 - Light and Color

PHYS 127 - Physics for Computer Graphics and Animation

PHYS 128 - Physics of Martial Arts

PHYS 130 - Exploring the New Physics

PHYS 131 - Concepts in Physics I

PHYS 132 - Concepts in Physics II

PHYS 135 - The First Three Minutes

PHYS 136 - Chaos and Fractals

PHYS 152 - Mechanics

PHYS 170 - Special Topics in Physics

PHYS 201 - General Physics I

PHYS 202 - General Physics II

PHYS 210 - The Nature of Physical Science I

PHYS 218 - General Physics

PHYS 219 - General Physics II

PHYS 220 - General Physics

PHYS 221 - General Physics

PHYS 251 - Heat, Electricity, and Optics

PHYS 270 - Special Topics in Physics

PHYS 302 - Puzzles, Games, and Problem Solving - Honors

PHYS 302 - Puzzles, Strategy Games, and Problem Solving in the Physical Sciences

PHYS 310 - Intermediate Mechanics

PHYS 315 - Lasers in Art and Science

PHYS 322 - Optics

PHYS 325 - Scientific Computing

PHYS 326 - Physics for Computer Graphics and Animation II

PHYS 330 - Intermediate Electricity and Magnetism

PHYS 331 - Electricity and Magnetism II

PHYS 342 - Modern Physics

PHYS 343 - Modern Physics Laboratory

PHYS 345 - Optics Laboratory I

PHYS 346 - Advanced Laboratory I

PHYS 361 - Electronics for Scientists

PHYS 370 - Special Topics in Physics

PHYS 405 - Atomic and Molecular Physics

PHYS 470 - Special Topics in Physics

PHYS 515 - Thermal and Statistical Physics

PHYS 520 - Mathematical Physics

PHYS 522 - Coherent Optics and Quantum Electronics

PHYS 524 - Physical Optics and Experimental Spectroscopy

PHYS 536 - Electronic Techniques for Research

PHYS 545 - Solid State Physics

PHYS 550 - Introduction to Quantum Mechanics

PHYS 570 - Selected Topics in Physics

PHYS 590 - Reading and Research

POLS S103 - Introduction to American Politics - Honors

POLS S105 - Introduction to Political Theory - Honors

POLS S200 - Political Topics

POLS S211 - Introduction to Law - Honors

POLS S401 - Studies in Political Science

POLS Y103 - Introduction to American Politics

POLS Y105 - Introduction to Political Theory

POLS Y107 - Introduction to Comparative Politics

POLS Y109 - Introduction to International Relations

POLS Y200 - Contemporary Political Topics

POLS Y205 - Elements of Political Analysis

POLS Y211 - Introduction to Law

POLS Y301 - Political Parties and Interest Groups

POLS Y303 - Formation of Public Policy in the United States

POLS Y304 - American Constitutional Law I

POLS Y305 - American Constitutional Law II

POLS Y306 - State Politics in the United States

POLS Y307 - Indiana State Government and Politics

POLS Y317 - Voting, Elections, and Public Opinion

POLS Y318 - The American Presidency

POLS Y319 - The United States Congress

POLS Y320 - Judicial Politics

POLS Y324 - Women and Politics

POLS Y328 - Women and the Law

POLS Y335 - Western European Politics

POLS Y339 - Middle Eastern Politics

POLS Y340 - East European Politics

POLS Y350 - Politics of the European Union

POLS Y360 - U.S. Foreign Policy

POLS Y367 - International Law

POLS Y371 - Workshop in International Topics

POLS Y374 - International Organization

POLS Y376 - International Political Economy

POLS Y378 - Problems in Public Policy

POLS Y381 - History of Political Theory I

POLS Y382 - History of Political Theory II

POLS Y383 - American Political Ideas I

POLS Y384 - American Political Ideas II

POLS Y394 - Public Policy Analysis

POLS Y395 - Quantitative Political Analysis

POLS Y398 - Internship in Urban Institutions

POLS Y401 - Studies in Political Science

POLS Y480 - Undergraduate Readings in Political Science

POLS Y482 - Practicum

POLS Y490 - Senior Seminar in Political Science

POLS Y496 - Foreign Study in Political Science

POLS Y499 - Honors Thesis

PSY 100 - Introduction to the Science and Fields of Psychology

PSY 120 - Elementary Psychology

PSY 120H - Elementary Psychology - Honors

PSY 201 - Introduction to Quantitative Topics in Psychology I

PSY 202 - Introduction to Quantitative Topics in Psychology II

PSY 203 - Introduction to Research Methods in Psychology

PSY 203H - Introduction to Research Methods in Psychology

PSY 225 - Stereotyping and Prejudice

PSY 235 - Child Psychology

PSY 235H - Child Psychology - Honors

PSY 240 - Introduction to Social Psychology

PSY 240H - Introduction to Social Psychology - Honors

PSY 251 - Health Psychology

PSY 272 - Introduction to Industrial/ Organizational Psychology

PSY 310 - Sensory and Perceptual Processes

PSY 314 - Introduction to Learning

PSY 314H - Introduction to Learning - Honors

PSY 317 - Addictions: Biology, Psychology and Society

PSY 329 - Psychobiology II: Principles of Psychobiological Psychology

PSY 330 - Psychology of the Arts

PSY 334 - Cross Cultural Psychology

PSY 345 - Psychology of Women

PSY 348 - Group Human Relations

PSY 350 - Abnormal Psychology

PSY 350H - Abnormal Psychology - Honors

PSY 353 - Social and Personality Development in Children

PSY 362 - Human Development II: Adolescence

PSY 365 - Development of Gender Roles in Children

PSY 367 - Adult Development and Aging

PSY 367H - Adult Development and Aging - Honors

PSY 369 - Development Across the Lifespan

PSY 371 - Death and Dying

PSY 381 - Psychology and Law

PSY 392 - Special Topics in Psychology

PSY 392H - Special Topics in Psychology - Honors

PSY 392H - Special Topics in Psychology - Honors

PSY 416 - Cognitive Psychology

PSY 419 - Psychopharmacology

PSY 420 - Introduction to Personality Theory

PSY 426 - Language Development

PSY 444 - Human Sexual Behavior

PSY 460 - Advanced Abnormal Psychology

PSY 480 - Field Experience in Psychology

PSY 490 - Practicum in Psychotherapy

PSY 495 - Issues in Psychology

PSY 496 - Readings and Research in Psychology

PSY 498 - Senior Research

PSY 499 - Honors Thesis in Psychology

PSY 523 - Introduction to Theories of Psychotherapy

PSY 526 - Psycholinguistics

PSY 532 - Psychological Disorders of Childhood

PSY 540 - History of Psychology

PSY 550 - Introduction to Clinical Psychology

PSY 590 - Individual Research Problems

PSY 592 - Advanced Special Topics in Psychology

REL 301 - Islam

REL 302 - Christianity

REL 311 - African Traditional Philosophy and Religion

REL 312 - The Black Religious Experience

REL 321 - Religion and the Civil Rights Movement

REL 401 - Studies in Sacred Texts

SLAV R111 - Elementary Russian I

SLAV R112 - Elementary Russian II

SLAV R214 - Second-Year Russian I

SLAV R215 - Second-Year Russian II

SOC S161 - Principles of Sociology

SOC S163 - Social Problems

SOC S230 - Society and the Individual

SOC S260 - Analysis of Social Issues

SOC S295 - Selected Topics in Sociology

SOC S298 - Colloquium in Sociology and Women's Studies

SOC S300 - Race and Ethnic Relations

SOC S303 - Industrial Sociology

SOC S305 - Population

SOC S309 - The Community

SOC S313 - Religion and Society

SOC S314 - Social Aspects of Health and Medicine

SOC S315 - Work and Occupations

SOC S316 - The Family

SOC S317 - Inequality

SOC S318 - Social Change

SOC S320 - Deviant Behavior and Social Control

SOC S324 - Mental Illness

SOC S325 - Criminology

SOC S328 - Juvenile Delinquency

SOC S331 - Sociology of Aging

SOC S338 - Sociology of Gender Roles

SOC S340 - Social Theory

SOC S351 - Social Statistics

SOC S352 - Methods of Social Research

SOC S360 - Topics in Social Policy

SOC S398 - Internship in the Behavioral Sciences

SOC S410 - Topics in Social Organization

SOC S413 - Sex Inequality in Society

SOC S420 - Topics in Deviance

SOC S425 - Violence and Society

SOC S431 - Topics in Social Psychology

SOC S441 - Topics in Social Theory

SOC S450 - Topics in Methods and Measurement

SOC S470 - Senior Seminar

SOC S494 - Field Experience in Sociology

SOC S495 - Individual Readings in Sociology

SPAN S105 - Communication and Culture Spanish I

SPAN S106 - Communication and Culture Spanish II

SPAN S111 - Elementary Spanish I

SPAN S112 - Elementary Spanish II

SPAN S113 - First-year Spanish in One Semester

SPAN S203 - Second-Year Spanish I

SPAN S204 - Second-Year Spanish II

SPAN S210 - Second-Year Spanish Composition

SPAN S246 - Women in Hispanic Literature

SPAN S290 - Topics in Hispanic Culture

SPAN S301 - The Hispanic World I

SPAN S302 - The Hispanic World II

SPAN S311 - Spanish Grammar

SPAN S312 - Written Composition in Spanish

SPAN S315 - Spanish in the Business World

SPAN S316 - Commercial Spanish

SPAN S317 - Spanish Conversation and Diction

SPAN S407 - Survey of Spanish Literature I

SPAN S408 - Survey of Spanish Literature II

SPAN S411 - Spain: The Cultural Context

SPAN S412 - Latin-American Culture and Civilization

SPAN S417 - Hispanic Poetry

SPAN S418 - Hispanic Drama

SPAN S420 - Modern Spanish-American Prose Fiction

SPAN S421 - Advanced Grammar

SPAN S425 - Spanish Phonetics

SPAN S426 - Introduction to Spanish Linguistics

SPAN S428 - Applied Spanish Linguistics

SPAN S450 - Don Quixote

SPAN S470 - Women and Hispanic Literature

SPAN S471 - Spanish-American Literature I

SPAN S472 - Spanish-American Literature II

SPAN S478 - Modern Spanish Novel

SPAN S479 - Mexican Literature

SPAN S480 - Argentine Literature

SPAN S488 - Spanish for Teachers

SPAN S494 - Individual Readings in Hispanic Studies

SPAN S495 - Hispanic Colloquium

SPAN W300 - Methods of Research and Criticism

SPAN W399 - Internship in Spanish

SPEA E100 - Environmental Topics

SPEA E162 - Environment and People

SPEA E272 - Introduction to Environmental Sciences

SPEA E400 - Topics in Environmental Studies

SPEA H120 - Contemporary Health Issues

SPEA H316 - Environmental Science and Health

SPEA H320 - Health Systems Administration

SPEA H322 - Principles of Epidemiology

SPEA H352 - Health Finance and Budgeting

SPEA H371 - Human Resource Management in Healthcare Facilities

SPEA H402 - Hospital Administration

SPEA H411 - Long-Term Care Administration

SPEA H416 - Environmental Health Policy

SPEA H422 - The Social Epidemics: AIDS, Violence, and Substance Abuse

SPEA H441 - Legal Aspects of Healthcare Administration

SPEA H455 - Topics in Public Health

SPEA H456 - Managed Care

SPEA H474 - Health Administration Seminar

SPEA J101 - The American Criminal Justice System

SPEA J201 - Theoretical Foundations of Criminal Justice Policies

SPEA J202 - Criminal Justice Data, Methods, and Resources

SPEA J260 - Topics in Criminal Justice

SPEA J301 - Substantive Criminal Law

SPEA J302 - Procedural Criminal Law

SPEA J303 - Evidence

SPEA J304 - Correctional Law

SPEA J305 - Juvenile Justice

SPEA J306 - The Criminal Courts

SPEA J310 - Introduction to Administrative Processes

SPEA J320 - Criminal Investigation

SPEA J321 - American Policing

SPEA J322 - Introduction to Criminalistics

SPEA J331 - Corrections

SPEA J369 - Private Justice: Police, Courts, and Corrections

SPEA J370 - Seminar in Criminal Justice

SPEA J376 - Principles of Public Safety

SPEA J380 - Internship in Criminal Justice

SPEA J433 - Institutional Corrections

SPEA J439 - Crime and Public Policy

SPEA J440 - Corrections in the Community

SPEA J445 - Trends in Corrections

SPEA J460 - Police in the Community

SPEA J470 - Seminar in Criminal Justice

SPEA J480 - Research in Criminal Justice

SPEA K300 - Statistical Techniques

SPEA V170 - Introduction to Public Affairs

SPEA V260 - Topics in Public Affairs

SPEA V263 - Public Management

SPEA V264 - Urban Structure and Policy

SPEA V270 - Survey of Administrative Techniques

SPEA V275 - Introduction to Emergency Management

SPEA V340 - Urban Government Administration

SPEA V348 - Management Science

SPEA V365 - Urban Development and Planning

SPEA V366 - Managing Behavior in Public Organizations

SPEA V368 - Managing Government Operations

SPEA V370 - Research Methods and Statistical Modeling

SPEA V371 - Financing Public Affairs

SPEA V372 - Government Finance and Budgets

SPEA V373 - Human Resources Management in the Public Sector

SPEA V376 - Law and Public Policy

SPEA V377 - Legal Process and Contemporary Issues in America

SPEA V378 - Policy Processes in the United States

SPEA V380 - Internship in Public Affairs

SPEA V381 - Professional Experience

SPEA V387 - Public Administration and Emergency Management

SPEA V389 - Risk and Hazard Mitigation

SPEA V390 - Readings in Public Affairs

SPEA V405 - Public Law and the Legislative Process

SPEA V406 - Public Law and the Electoral Process

SPEA V407 - Public Law and Government Relations

SPEA V421 - Metropolitan Development

SPEA V432 - Labor Relations in the Public Sector

SPEA V441 - Topics in Financial Management and Policy

SPEA V444 - Public Administrative Organization

SPEA V447 - Federal Budget Policy

SPEA V449 - Policy Senior Seminar

SPEA V450 - Contemporary Issues in Public Affairs

SPEA V450 - Contemporary Issues in Public Affairs - Honors

SPEA V456 - Topics in Public Law

SPEA V457 - Management Science in the Public Sector

SPEA V465 - Geographic Information Systems for Public and Environmental Affairs

SPEA V471 - Urban Management Systems

SPEA V490 - Directed Research in Public and Environmental Affairs

STAT 125 - Communicating with Statistics

STAT 240 - Statistical Methods for Biology

STAT 301 - Elementary Statistical Methods I

STAT 340 - Elementary Statistical Methods II

STAT 490 - Topics in Statistics for Undergraduates

STAT 511 - Statistical Methods

STAT 512 - Applied Regression Analysis

STAT 514 - Design of Experiments

STAT 516 - Basic Probability and Applications

STAT 517 - Statistical Inference

STAT 519 - Introduction to Probability

STAT 528 - Introduction to Mathematical Statistics

THTR 105 - Dance History

THTR 117 - Jazz Dance I

THTR 121 - Tap I

THTR 125 - Ballet I

THTR 134 - Fundamentals of Performance

THTR 136 - Rehearsal and Performance I

THTR 137 - Jazz Dance II

THTR 138 - Acting I

THTR 145 - Ballet II

THTR 158 - Stagecraft

THTR 168 - Theatre Production I

THTR 201 - Theatre Appreciation

THTR 213 - Voice for the Actor

THTR 221 - Tap II

THTR 238 - Acting II

THTR 256 - Stage Makeup

THTR 261 - Introduction to Theatrical Design

THTR 264 - Rendering Techniques

THTR 284 - Textual Analysis

THTR 323 - Acting: Movement for the Actor

THTR 336 - Rehearsal and Performance II

THTR 338 - Acting III

THTR 351 - Costume Techniques I

THTR 355 - American Musical Theatre

THTR 360 - Scenic Design

THTR 361 - Costume Design

THTR 362 - Light Design

THTR 365 - Period Style for the Theatre I

THTR 366 - Period Style for the Theatre II

THTR 368 - Theatre Production II

THTR 376 - Introduction to Playwriting

THTR 390 - Directed Study of Special Theatre Problems

THTR 390 - Directed Study of Special Theatre Problems

THTR 413 - Advanced Voice for the Stage

THTR 424 - Basic Choreography for the Theatre

THTR 438 - Acting IV

THTR 440 - Beginning Directing

THTR 470 - Theatre and Society I

THTR 471 - Theatre and Society II

THTR 499 - Senior Performance Project

THTR 501 - Stage Management

THTR 504 - Summer Repertory Theatre

THTR 536 - Advanced Problems in Acting

THTR 540 - Advanced Directing

THTR 542 - Advanced Problems in Theatre Directing

THTR 560 - Advanced Scenic Design

THTR 561 - Advanced Costume Design

THTR 562 - Advanced Light Design

THTR 566 - Theatre Management

THTR 576 - Playwriting

THTR 583 - American Theatre History and Drama

THTR 590 - Directed Study of Special Theatre Problems

VCD F102 - Color Design

VCD H348 - History of Photography

VCD H390 - Topics in Art History

VCD H490 - Topics in Art History

VCD H495 - Readings and Research in Art History

VCD N198 - Introduction to Photography for Nonmajors

VCD N274 - Digital Imaging

VCD P151 - Design Fundamentals I

VCD P152 - Design Fundamentals II

VCD P243 - Photography Fundamentals

VCD P253 - Principles of Graphic Design I

VCD P254 - Principles of Graphic Design II

VCD P255 - Lettering and Typography

VCD P261 - Layout and Finished Art

VCD P271 - Illustration I

VCD P272 - Illustration II

VCD P273 - Computer Art and Design I

VCD P300 - Professional Practice Internship

VCD P343 - Advanced Photography I

VCD P344 - Advanced Photography II

VCD P351 - Advanced Design I

VCD P352 - Advanced Design II

VCD P356 - Package Design

VCD P357 - Display and Design

VCD P371 - Illustration III

VCD P372 - Illustration IV

VCD P374 - Computer Art and Design II

VCD P443 - Advanced Photography III

VCD P444 - Advanced Photography IV

VCD P450 - Senior Project

VCD P453 - Graphic Design III

VCD P454 - Graphic Design IV

VCD P475 - Computer Art and Design III

VCD P476 - Three-Dimensional Computer Modeling

VCD P478 - Computer Animation

VCD P490 - Topics in Studio Fine Arts

VCD P495 - Independent Study in Fine Arts

VCD P590 - Topics in Studio Fine Arts

VM 102 - Careers in Veterinary

WOST W210 - Introduction to Women's Studies

WOST W225 - Gender, Sexuality, and Popular Culture

WOST W240 - Topics in Feminism

WOST W301 - International Perspectives on Women

WOST W302 - Topics in Women's Studies

WOST W340 - Topics in Lesbian and Gay Culture

WOST W400 - Topics in Women's Studies

WOST W480 - Practicum in Women's Studies

WOST W495 - Readings and Research in Women's Studies

Part 6. Services

Click on a link to be taken to the entry below.

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| 17. First Year Experience (FYE) | 35. Veterans' Services |
| 18. Health and Wellness Clinic | 36. Voter Registration |
| | 37. Writing Center |

1. Academic Advising

While students are ultimately responsible for accomplishing their own educational goals and progressing toward graduation, IPFW is committed to helping them meet this responsibility by ensuring access to quality academic advising. This is evidenced by the Academic Advising Council, a group of advisors and others (including students) from across campus that constantly strives to improve advising services. Academic advisors are available to provide students with accurate, up-to-date information and appropriate guidance on academic matters. Students may find the names of their academic advisors by accessing my.ipfw on the IPFW home page or by contacting their academic units.

Students will benefit most from academic advising only when they accept a major share of the responsibility for seeking timely advice. Other, more specific obligations in the shared relationship between students and their academic advisors are as follows:

It is the academic advisor's responsibility to

- Be knowledgeable about university, school/division, and department academic regulations.
- Establish, maintain, and clearly post adequate and suitable office hours for advising (including information on summer availability).
- Assist the student with understanding degree requirements and the proper sequencing and selection of courses. This includes being knowledgeable about developmental course placement and any published changes in requirements.
- Assist the student with determining practical and manageable academic loads.
- Assist the student with monitoring academic progress.
- Document approved exceptions to the student's academic program.
- Explain the relationships among degree requirements, departmental philosophy, and as necessary, certification criteria.
- Assist the student with considering areas of enrichment appropriate to abilities and goals.
- Assist the student with linking programs of study to relevant career opportunities.
- Act, when appropriate, as a referral agent to other university personnel and services.

It is the student's responsibility to

- Be knowledgeable about university, school/division, and departmental program requirements; academic regulations; and calendar deadlines specified in the *Bulletin*, *Schedule of Classes*, and departmental publications.
- Consult with his/her advisor whenever appropriate and in a timely manner.
- Be prepared for all scheduled advising sessions.
- Make academic decisions based upon the information obtained or recommendations offered. Academic advisors will not make decisions for students.
- Act upon academic decisions in a timely manner.
- Maintain personal records of academic progress, including documentation of approved exceptions to stated program requirements.
- Seek additional or supplemental advice from other university personnel or services as needed or recommended.
- Present and candidly discuss factors (such as employment, commuting distance, and other circumstances) that might influence selection of classes, registration processes, and other academic planning.

2. Academic Counseling and Career Services (ACCS)

Academic Counseling and Career Services (Kettler 109, 481-6595) is responsible for providing academic advising services for students classified as undeclared, exploratory, and prebusiness; as well as career-related services for all IPFW students and alumni. Assistance is provided in the following areas: course selection/planning, identifying academic major and career choices, career assessments; full-time, part-time, and work-study employment; academic placement testing; job search strategies; internships; résumé referrals; campus interviews; and opportunities for National Student Exchange with other universities.

In addition to the services listed above, staff members are actively involved in teaching. IDIS 110 Freshman Success is designed to introduce students to the rigors of college life, and EDUC X210 assists students in the career planning process.

Office hours are 8 a.m.-6 p.m. Monday and Tuesday, and 9 a.m.- 5 p.m. Wednesday to Friday during fall and spring semesters.

Career information and counseling services help students evaluate career interests, abilities, and skills, and define realistic career objectives by choosing a field of study based on personal goals and preferences. Available services include career-interest inventories and personality assessment, career counseling, a career-planning course, a career-resource library, and a computerized career-resource system. Additional career information may be found in Helmke Library.

Employment Services provides contacts and information to support the search for a meaningful and rewarding career. Careeropportunities listings are continually updated and available from Employment Services or via the Internet. Résumé, interviewing, networking, and job-search services are available

Student Employment Services provides assistance at no cost to IPFW students seeking on- or off-campus employment that is compatible with their class schedules. Listings of available positions are available online at www.ipfw.edu/accs/students/JLDdefault.shtm/. This office is also responsible for coordination of the College Work-Study program.

Testing Services, available in Kettler 232, include IPFW placement tests (English, mathematics, reading, and foreign languages), the Institutional SAT, national tests (CPA, CLEP, LSAT, MAT, PRAXIS, and SAT), correspondence-study examinations, career-assessment inventories, and board and certification exams for dental hygiene and dental assisting.

3. Alumni Relations

More than 41,500 IPFW graduates, residing in 50 states and 38 countries, are alumni of IPFW. With 80 percent of IPFW alumni remaining in Indiana, their work is seen in the growth and economic development of the state.

IPFW students have a chance to connect with alumni in a variety of ways, including:

Fall Dining Etiquette and Mentoring Dinner: learn business etiquette and then have dinner with an IPFW graduate who is in the career field the student hopes to enter.

Spring Grip and Grin Networking Event: a seminar on how to network followed by a social hour of networking with IPFW graduates representing several different career fields.

Personal Student-to-Alumni One-on-One Visits: connected via the alumni office, you can chat with or spend the day with an IPFW graduate in the career field you'd like to be employed .

Fall Homecoming: celebrate during the pre-game with IPFW graduates and faculty.

Each fall, students are asked to join alumni and faculty in having lunch with our northeast Indiana legislators and talking about the financial needs of IPFW. Each spring, we transport students, alumni, and faculty to the Indianapolis statehouse for another luncheon with our northeast Indiana legislators.

Students are also provided other opportunities through the IPFW Alumni Association's student organization, the Student Alumni Association. These students have even more networking and meeting opportunities with key alumni in the area.

The IPFW Alumni Relations office is located in Walb 125, 260-481-6807, www.ipfw.edu/alumni.

4. Athletics, Recreation, and Intramural Sports

Athletics, Recreation, and Intramural Sports (Gates Center 210, 481-6643) administers sports-related university activities and manages the Gates Sports Center. Contact the office for further information about programs and fees. Intercollegiate athletics are open to all qualified students. IPFW is a member of the National Collegiate Athletics Association (NCAA) Division I and competes in the Midwest Intercollegiate Volleyball Association (MIVA). IPFW offers the following programs:

Basketball
Cross Country
Indoor Track

Baseball
Soccer
Outdoor Track

Volleyball
Tennis
Softball

Golf

Information about athletics participation is available from the Athletics, Recreation, and Intramural Sports and the Admissions offices, or go to www.ipfw.edu/athletics.

Intramural programs are open to all eligible IPFW students, faculty, and staff and include the following sports: badminton, basketball, billiards, flag football, racquetball, table tennis, volleyball, and wallyball. Annual tournament events include a 5K run/walk event and a golf meet.

Recreational and fitness programs for individuals and groups make use of the extensive resources available at IPFW. Indoor facilities include a running track; aerobic and anaerobic conditioning equipment; and basketball, handball, racquetball, and volleyball courts. Outdoor facilities include a one-mile fitness trail; three-mile cross country course; soccer, baseball, and softball fields; tennis courts; and a volleyball court. Aerobic exercise classes, Nautilus conditioning clinics, and fitness-assessment programs are conducted throughout the year.

5. Bookstore

Follett's IPFW Bookstore has served the academic community at IPFW for more than 35 years, fulfilling students' needs from freshman classes to purchasing graduation apparel. Conveniently located in Kettler Hall (G10), the bookstore offers textbooks, general books, academically priced software, computer hardware, apparel, gifts, and more. In addition, the bookstore gives you the convenience of ordering your textbooks and other items online at efollett.com. These items can be purchased for pick-up at the bookstore or shipped to your home. You can contact the bookstore at 260-483-6100 or by e-mail at bookstor@ipfw.edu.

6. Center for Women and Returning Adults

The Center for Women and Returning Adults (CWRA) (Walb 120, 481-6029) serves as an advocate for women and nontraditional students by providing academic, financial, and personal assistance while simultaneously familiarizing them with the network of services available on campus or in the community. The CWRA provides a continuum of services directed toward an extremely diverse subculture within the campus community. The nature of our services extends beyond the campus or student life spectrum into the life-planning arena that is specific to nontraditional students or individuals and family members. Our involvement in child care, housing, financial, and domestic abuse issues requires that our services be directed from the campus to the community. Special ongoing efforts designed to meet the needs of our subculture include STARS (Starting, Transfer, and Returning Students) orientations and Students with Families workshops and entertainment. In addition, the director of the Center for Women and Returning Adults oversees the Child Care Center and is the assistant dean of students.

7. Child Care

Child care is available on a part-time basis for children of IPFW students, faculty, and staff. The IPFW Child Care Center is located at 4133 Hobson Road. Hours of operation during fall, winter, and spring are 7:45 a.m.-9 p.m. Monday through Thursday, and 7:45 a.m.-5 p.m. Fridays. Summer hours are 7:15 a.m.-8 p.m. Mondays, Tuesdays, and Thursdays; 7:45 a.m.-5 p.m. Wednesdays; and closed Fridays. Evening care is based on sufficient enrollment. The center provides care for children ages 2-12. For registration or more information, contact the Child Care Center at 481-0111.

8. Collegiate Connection

The Collegiate Connection program is an exciting opportunity for students to earn college credit while attending high school. Collegiate Connection means:

- Earning dual credit - college and high school.
- Taking more advanced courses or courses not offered at the high school level.
- Exploring a career direction.

- Earning accredited transferable university credit.
- Experiencing college!

Students must meet the following criteria for participation in the Collegiate Connection program:

- Passed both sections of the ISTEP
- Maintain a B average
- Completed (or will be able to complete) enough high school credits to meet CORE 40 or Academic Honors high school graduation requirements
- Parent/guardian approval

As a Collegiate Connection student, you may take any IPFW course that is appropriate for a college freshman. Some financial aid is available based upon need and is made possible with the support of the Lincoln National Foundation Inc. Any student meeting the admission requirements and who qualifies for free and/or reduced textbook/lunch program is eligible to take up to two classes per semester (fall/spring) tuition-free. Students are responsible for their textbooks and transportation.

For additional information please call 260-481-5478, e-mail connection@ipfw.edu, or visit the program Web site at www.ipfw.edu/cconnect.

9. Computer Resources

IPFW's computing environment includes access to networked computers and a variety of software, from word processing to discipline-specific applications.

Student Accounts -(includes e-mail, my.ipfw, student-access labs) - Accounts for student computing resources are created upon the student's admission to IPFW. The student must complete an activation process before using the account including sending or receiving e-mail. Student e-mail accounts are accessible from any student-access lab, e-mail quick station, or the Web. Student accounts remain active as long as the student is enrolled.

Web Space-Each student and official student organization receives 10 MB of Web space to be used in conjunction with university responsibilities.

Computer Labs-All student-access computer labs and computer-equipped classrooms are capable of accessing many software applications, student e-mail, and the Internet. The student-access computer labs are in Kettler Hall 204A, 217; Neff Hall B71 and B73 (a shared-use lab); Science Building G15; Helmke Library; and Walb Union 221. Besides these student-access labs, some schools and departments provide their students with access to additional specialized labs. The sponsoring departments define their availability and hours.

Getting Help -For the most current campus computing information and software documentation, visit the IT Services' Web site at www.its.ipfw.edu. Additionally, documentation is also available in each student-access lab. Student consultants are available in person or via phone to assist students during most open lab hours. Student consultants cannot do assignments for students, but can answer general computing questions. In addition, IT Services provides consultants at the Help Desk in Kettler 206. Help Desk staff can answer questions about specific computer services and facilities available to students.

10. Division of Continuing Studies

The IPFW Division of Continuing Studies provides lifelong learning opportunities through its credit programs and public courses for professional development and personal enrichment. Approximately 20,500 enrollments are managed annually.

The division increases student access to internationally recognized Indiana University and Purdue University degrees by partnering with the university's academic departments to provide the alternative delivery of college credit courses. The division manages offcampus instruction (Auburn, Bluffton, Decatur, Huntington, and the IPFW Warsaw Center), distance-learning delivery (TV, video, DVD, Internet, and teleconferencing), and the university's Weekend College program. In addition, the division administers the associate and bachelor's degrees in general studies (A.A.G.S and B.G.S.) and offers special workshops for teachers that provide graduate credit applicable toward relicensure.

The Division of Continuing Studies also provides noncredit options, many of which yield continuing education units. These include public courses for personal and professional development and customized company training for regional businesses on a variety of topics, including manufacturing, supervision, leadership, languages, and computers. For more targeted, in-depth training, selected professional development courses are grouped into certificate programs. These options offer students concise, careerrelated education.

For more information about the Division of Continuing Studies and a listing of available courses, see www.ipfw.edu/dcs.

11. Cooperative (Co-op) Education Program

Cooperative Education (Neff 337, 481-6939) is a nationally recognized academic enhancement program that allows students to gain valuable employment experience related to their majors. Students are paid competitive wages and may receive academic credit. Local employers offer co-op jobs in biology, chemistry, communication, English, mathematics, physics, engineering, technology, computer science, business, and organizational leadership and supervision. Eligibility requirements include current student status, completion of freshman courses toward a bachelor's degree, and the established departmental GPA prerequisite. Visit the Web site at www.ipfw.edu/co-op.

12. Crossroads: Connecting Learning Opportunities

To help you avoid the typical roadblocks experienced by transfer students - losing credits, time, and money - Ivy Tech Community College and IPFW are working together to ensure that certain courses will be equivalent and transferable between both institutions. That means you can take a variety of courses at Ivy Tech then transfer the credits to IPFW. Both schools have approved associate-to-bachelor's-degree programs that allow you to earn an associate degree at Ivy Tech then complete a bachelor's degree at IPFW. With Crossroads, you can enroll as either a part-time or fulltime student - there is no time limit for completing the program. For more information, call 260-481-0748 or visit our Web site at www.ivytech.edu/fortwayne/crossroads.

13. Dean of Students

The dean of students office (Walb 111, 481-6601) may be contacted regarding any problem you are experiencing. Either direct assistance or referral to the appropriate individual or office will be provided. In addition, the dean and assistant dean handle student conduct problems and advise students of their rights and responsibilities, provide assistance in pursuing grade appeals and student complaints, and serve as an advocate for students and their issues. The dean also advises the student government association and oversees the mentoring program, personal counseling, the Center for Women and Returning Adults, and Services for Students with Disabilities.

14. Disabilities, Services for Students with

Services for Students with Disabilities (SSD) coordinates IPFW's programming for students with disabilities, as required by Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Persons with qualifying disability conditions per these regulations are eligible for specialized academic support services and other assistance through SSD.

SSD provides free and appropriate academic aids and services including reader and sign-language interpreter services, accommodated test proctoring facilities, disability-specific career/academic/personal counseling, coordination of the use of accessible computer workstations across campus, and more. SSD also serves the campus community as advocate/consultant on disability-related issues.

IPFW does not provide personal attendant care or transportation services. Students must be able to attend to their personal care and needs or must arrange independently for such services if needed. Although a personal escort may be provided during times of inclement weather, students are responsible for their transportation to and from campus and between classes and other facilities. Students with disabilities are responsible for attending classes as required by the class instructor's attendance policy.

To request services on the basis of disability or to receive further information, call 481-6657 (VOICE/TTD) or visit the director of SSD in Walb Student Union, Room 113.

15. Diversity and Multicultural Affairs

Diversity and Multicultural Affairs (Walb 118, 481-6608) provides a vital support system for African American, Asian American, Hispanic, international, Native American, and other underrepresented students enrolled at IPFW. Evening appointments can be arranged for students who cannot visit the office during regular hours.

Services include networking opportunities, cultural/heritage programs, educational and personal counseling, leadership development and enhancement, mentoring, workshops, and study tables.

Diversity and Multicultural Affairs also assists in the development, administration, and evaluation of student recruitment and retention efforts; sponsors outreach and programs for early access to higher education; and provides cultural diversity training for IPFW faculty and staff.

16. Financial Aid

IPFW attempts to meet the demonstrated financial need of all applicants. The IPFW Financial Aid office uses grants, scholarships, loans, and part-time university employment to provide financial assistance to IPFW students. Contact Financial Aid (Kettler 102B, 481-6820; TTY 481-6082) for specific information about eligibility requirements; application procedures; the types of aid available; and regulations related to scholarship, grant, loan, and other forms of assistance. A free brochure is available in the Financial Aid office, or you can access the same information on the Internet at <http://studentaid.ed.gov>.

Most financial aid programs at IPFW are based on the premise that the student and his/her family are responsible for paying the cost of the student's education, with consideration given to the family's current financial circumstances. IPFW financial assistance is awarded to help meet educational expenses not covered by the family's contribution.

Financial aid awards may be used to meet some costs of study abroad and student-exchange programs, if IPFW credit will be awarded for the program and other requirements are met.

To apply for assistance, the student must file the Free Application for Federal Student Aid (FAFSA) and list Indiana University-Purdue University Fort Wayne (school code 001828) as the college the student plans to attend. Students are encouraged to file the FAFSA electronically at www.fafsa.ed.gov. The FAFSA generates the expected online family contribution (EFC), which is used to determine eligibility for financial aid and is usually available online shortly after Jan. 1. Applications from IPFW students that are received by March 10 at the federal processor are given priority consideration. Information about specific procedures and assistance with filling out the FAFSA are available at the Financial Aid office.

If the student is eligible for financial aid and has submitted all additional required materials, he/she will receive e-mail notification when the awards are created. Freshmen will receive an e-mail and a paper award letter. To accept the aid that is offered, the student must log on to my.IPFW.edu and accept aid through OASIS. Aid that a student accepts will be applied as a credit on the e-bill received after registering for classes.

The State Student Assistance Commission of Indiana (SSACI) requires students to be enrolled in at least 12 credit hours each semester through the end of the fourth week of classes in order to keep the Indiana Higher Education Award and/or the 21st Century Scholars grants.

Students may request a review of any decision concerning eligibility for aid, including satisfactory academic progress. A financial aid administrator will review the situation with the student. The student may appeal any decision to the director of IPFW Financial Aid. Final appeals may be made to the Scholarship and Financial Aid Advisory Committee. All determinations by this committee are final.

Satisfactory Academic Progress: All financial aid recipients are required to make reasonable academic progress toward completion of degree requirements. Standards for satisfactory academic progress involve two tests:

1. Students must successfully complete 75 percent of the credits attempted and earn at least the minimum GPA shown below:

*Credits attempted**Minimum cumulative GPA*

0-29	1.5
30-59	1.7
60-180	2.0

Grades of I,W, F, or audit will not count toward credits successfully completed.

2. Students will not be allowed to receive aid for more than the total number of credits shown below for the certificate or degree program they are pursuing:

Bachelor's degree	180 credit hours
Associate degree (two-year programs)	90 credit hours
Associate degree (three-year programs)	130 credit hours
Certificate	45 credit hours
Master's Degree	45 credit hours

Financial aid recipients who do not meet the satisfactory academic progress standards will be notified in writing that they are no longer eligible for financial aid. If extenuating circumstances exist, a written appeal must be filed within 30 days of the date of notification. The appeal form and specific instructions will be included with the notification letter.

For additional information regarding:

- Rights under Family Education Rights and Privacy Act (FERPA)
- FFEL/Direct Loan deferments for Peace Corps or volunteer service
- Available financial assistance
- IPFW scholarships
- Completion/graduation rate
- Campus security report
- Report on athletic program participation rates and financial support data

see the IPFW Web site at www.ipfw.edu.

Federal Student Loan Ombudsman Office The SFA ombudsman works with student loan borrowers to informally resolve loan disputes and problems. The Ombudsman Customer Service Line is 877-557- 2575 or you can access the Web site at <http://sfahelp.ed.gov>.

17. First Year Experience (FYE)

IPFW wants you to succeed from the start and has created the First Year Experience (FYE). FYE makes it easier to find your way around, make friends, and succeed academically. You will connect with other students, faculty, and staff through exceptional academic programs and an exciting campus life.

A powerful way to experience FYE is through FYE Learning Communities. Learning Communities are linked or paired courses; students move through these courses as a group. Communities foster a deeper understanding, integrate different classes with each other, and contain a social element that links classroom experiences with fun and rewarding activities both on and off campus. FYE and Learning Communities information is available through the Center for Academic Support and Advancement in Kettler G23 and G25, 481-6077.

18. Health and Wellness Clinic

The IPFW/Parkview Health and Wellness Clinic provides comprehensive health services to meet the medical and psychological needs of students, faculty, and staff at IPFW.

Location The clinic is conveniently located in Walb Union, Room 234, 481-5748. Parking is available in the parking garage next to Gates Sports Center.

Hours The clinic is open from 8 a.m. to 5 p.m. Monday through Thursday and 8 a.m. to noon Friday. Special hours, which will be posted, are in effect for holidays and semester breaks.

Staff The clinic is staffed with two nationally certified family nurse practitioners and a medical assistant. Our collaborating physicians are Mark O'Brien, M.D., and Matt Barb, M.D.

Appointments Appointments are available for your convenience. Clients are also seen on a walk-in basis.

Services Provided Our master's prepared, nationally certified family nurse practitioners are able to

Assess/diagnose healthcare problems, obtain medical histories, perform physical examinations, and order and interpret diagnostic studies such as lab work and X-rays.

Treat minor and acute illnesses as well as chronic health problems, such as diabetes, and provide confidential gynecological services. Nurse practitioners prescribe medication and consult with physicians and other healthcare providers as needed.

Promote healthy living through patient education and counseling.

Allergy Injections Allergy serum may be stored at the clinic. Allergy injections can be given between 8 a.m. and 4:30 p.m. Monday through Thursday and 8 and 11:30 a.m. Friday.

Health and Wellness Education Health and wellness education includes screenings, assessments, consultations, workshops, classes, and resources to help individuals gain awareness and abilities for better total wellness. Weight management, hearthealthy living, sports performance, eating disorders, diabetic control, breaking the smoking habit, and stress management are just a taste of the possible learning areas. Registered dietitians and certified physical fitness instructors are available to help you be a better you!

Health Fees Our clinic is a fee-for-service health facility. Students at IPFW are NOT assessed a student health fee. We request payment at each visit by cash, check, or credit card.

Students enrolled in the university's health insurance will be charged their co-pay for a routine office visit. Due to the large number of health insurance plans carried by students, we are presently only able to bill for AETNA, Chickering, Signature Care, Anthem, M Plan, HTH, Encore, Humana/ChoiceCare, MegaLife and Sagamore. We also carry Medicare and Medicaid. Please bring a copy of your insurance card for clinic appointments.

Upon checking out, an insurance-ready itemized statement will be provided so that you may submit it to your insurance company.

For those individuals with insurance that is out of network or without insurance, healthcare packages are available for purchase. Contact the Health and Wellness Clinic at 481-5748 for additional information.

19. Honors Program

The Honors Program (Walb G25, 481-6924) is an undergraduate program that seeks to create learning opportunities and an environment of intellectual excitement and discovery through enriched courses of study and activities within a learning community. Honors courses supplement and enrich studies in any academic major. Students can take as many or as few honors courses as they choose. Participation in the Honors Program can help students get jobs and get into graduate programs after graduation. The Honors Certificate can give students a leading edge in today's tight job market. Honors courses are multidisciplinary and tend to be more interactive. Class size is limited to 20 students, so there is more interaction between students and instructors than in other classes.

The Honors Program also offers many social and cultural events outside of the classroom. Each semester, social events are planned to build an honors community and to enhance the college experience. There are opportunities to visit museums, view

theatrical performances, and attend lectures. There are also parties and receptions that are primarily social events. These programs give students an opportunity to get to know each other and faculty members outside of the classroom.

See Honors Program in Part 4 of this Bulletin for details.

20. Housing Information

IPFW Student Housing (260-481-4180) provides apartment-style living for full-time students at IPFW. The IPFW Student Housing community will let you enjoy the freedom of apartment life without sacrificing the convenience and comfort of on-campus living. Each apartment is furnished and has a fully equipped kitchen, including microwave, trash disposal, and dishwasher. Bedrooms are individually keyed for privacy, and each bedroom is set up with high-speed Internet and cable. Community amenities include a computer lab, fireside community lounge, fitness room, and 24-hour laundry facilities. Additional information is available from the Student Housing office or visit the Student Housing Web site at www.IPFWstudenthousing.com.

21. Independent Study

A variety of credit courses is offered through the Indiana University Division of Extended Studies' Independent Study Program by correspondence and online at the Bloomington campus. Brochures describing available courses and enrollment procedures are available from IPFW Admissions (Kettler 111, 481-6812) or online at <http://scs.indiana.edu>. To apply correspondence-course credit toward a degree, an enrollment form must be signed by the student's advisor, department chair, or dean/director.

22. International Student Services

The International Services office (Kettler 104, 260-481-6034) provides admissions and related services for new and continuing IPFW international students. Other services for international IPFW students include academic program planning and personal counseling, assistance with credit transfer and evaluation, visas, and related immigration concerns and issues. The office also coordinates various campus and community ethnic and cultural celebrations and serves as the advisor to the International Student's Organization.

23. Library Services

The Walter E. Helmke Library (481-6512) offers excellent collections and services for IPFW students. Information services include

- User assistance at all times the library is open (Ask at the Service Desk)
- In-depth research consulting
- Remote access to hundreds of library databases and catalogs
- Librarian-prepared tutorials, course-related guides, and subject guides to materials and electronic information available at IPFW
- IUCAT, the online library catalog for IPFW, and all of the libraries in the Indiana University library system statewide
- Electronic course reserves, called ReservesEXpress, available 24-7
- An extensive World Wide Web site (www.lib.ipfw.edu/)

Collections are based on courses taught at IPFW and include more than 20,000 electronic and/or paper periodical subscriptions and well over 500,000 books, bound periodicals, and U.S. government publications on deposit, university archives, microforms, compact disks, videos, and art slides.

Since it is impossible for any library to collect all of the information materials available, the Helmke Library operates a fast and efficient document delivery service for needed research materials not available in the library.

Special facilities include more than 45 networked computers with access to electronic databases and other resources, a Science Information Center, an electronic information training center, an after-hours study room that provides access to the Internet, and group study work stations with networked computers.

The Official University ID card is also the Helmke Library borrower's card, good at all Indiana University libraries.

A virtual self-guided tour is available on the library's home page (www.lib.ipfw.edu/). Two brochures, Welcome to IPFW's Helmke Library and the Helmke Library Fact Sheet, provide additional information.

24. Math Course Options

Flexible pacing is an option available for some mathematics classes. Students work on modules at their own pace with an instructor and aides. Testing is done at the Mathematics Test Center (KT G18) at the completion of each module; tests are retaken until the required level of performance is met. Successful completion of all modules yields the course grade. The completion of a specified number of exams allows continuation of the course in the next semester.

Out-of-class testing for mathematics courses is an option available for some mathematics classes. It involves traditional lectures, but tests are administered at the Mathematics Test Center. No time limits are placed on tests other than the operation hours of the Mathematics Test Center. Each test (except the final) can be taken up to three times, with only the highest score recorded.

25. Media and Technology Support Services

The Learning Resource Center (LRC) provides media and technology support services on campus for university purposes. The range of equipment and services provided by LRC to the campus community can be discussed by calling the LRC office at 481-6519. Information on LRC services is also available at the IPFW home page on the Web at www.ipfw.edu.

LRC services can be scheduled in person at the LRC office in Helmke Library, B37, by e-mail at Ircscheduling@ipfw.edu, by fax at 481-6517, or by phone at 481-6519. For student activity functions, requests should be made through the Student Life office. LRC office hours are 8 a.m.-5 p.m., Monday through Friday.

26. Personal Counseling

Counseling services are provided by the IPFW Personal Counseling service. Counselors are available to provide assessment, evaluation, and short-term assistance with personal problems such as depression, stress, anxiety, relationship issues, and substance abuse. Please call 481-6601 to schedule an appointment.

27. Police and Safety

IPFW Police and Safety (Physical Plant 102, 481-6827) and its officers are empowered to enforce state and local laws, as well as campus traffic and conduct regulations, and to provide 24-hour emergency services on campus. The department conducts continuous security patrols, furnishes disabled-vehicle assistance, and maintains lost-and-found articles. Students and staff are urged to report all suspicious activity or other hazards to the department. Crime-prevention policy information, crime incidence, and arrest statistics are available from Police and Safety.

Escort service to and from classes for safety reasons is available any time by dialing 6900 from any campus phone.

28. Registration and Graduation

The IPFW *Schedule of Classes* is published for each semester and the summer sessions and is widely distributed on campus and published at the OASIS Web site, my.ipfw.edu. The OASIS Web site provides detailed current information about

- course offerings
- registration days and times
- fees and refunds
- the semester/session calendar
- important deadlines
- final-examination schedules
- general policies and procedures

Before you meet with your advisor, you should carefully examine each edition of the *Schedule of Classes* and make a tentative selection of classes in which you wish to enroll.

For the convenience of students with late-evening and weekend classes, a drop box is on the door of the registrar's office (Kettler 107). In most cases, deposited forms containing all applicable information and required signatures will be processed by noon on the next working day. Partially completed forms cannot be processed. This drop box is not secured for the deposit of checks, cash, or other financial transactions. All financial transactions are to be directed to the bursar's office (Kettler G57).

Graduation Information To be considered for graduation from an IPFW program, you must submit an application for graduation. If you do not apply for graduation by the deadline posted, you may not be considered for honors; your name may not appear in the program; and your spring degree may not be available at Commencement.

Please visit the Office of the Registrar's Web site, www.ipfw.edu/registrar/, and click on Graduation information or contact your department.

If you are finishing your degree:

Application Deadline

Fall Semester	June 1
Spring Semester	Nov. 1
Summer I Session	Feb. 1
Summer II Session	Feb. 1

29. Student Exchange Program

The National Student Exchange (NSE) program (Kettler 109, 481- 6595) allows eligible IPFW students to spend a semester or year studying at one of 185 different universities and colleges in the United States, its territories, and Canada. The NSE program broadens students' cultural and educational experiences.

Participating students pay regular tuition fees to IPFW and have access to financial aid they would have received at IPFW. While credits earned on exchange are recorded as resident credit toward the IPFW degree, exchange grades are not calculated in the IPFW grade-point average.

30. Student Handbook and Planner

A student handbook and planner is published each fall semester to inform students of the services, programs, and activities available at IPFW. It also contains important information on university policies and the Code of Student Rights, Responsibilities, and Conduct. The handbook is available at the Kettler Information Desk, the dean of students office (Walb 111), the bookstore, and other campus locations.

31. Student Life and Organizations

The Student Life office (Walb 115, 481-6609) promotes extracurricular and cocurricular events that complement and enhance each student's academic experience and personal development. More than 90 recognized student organizations serve a variety of special interests. The Student Life office works closely with the Student Activities Board (SAB) to provide the university community with recreational, cultural, educational, and social programs. Additional information is available in the *Student Handbook* or at the Student Life office and on the Internet at www.ipfw.edu/stulife.

32. Supplemental Instruction

Supplemental Instruction (SI), available through the Center for Academic Support and Advancement (CASA) (Kettler G23, 481-6817), is a free, voluntary program that provides extra help for students enrolled in selected course sections. A trained leader helps students learn course material and study techniques in group sessions held outside of class. SI participation has proven helpful to all types of students interested in improving their course grades.

STEPS, Student Technology Education Programs, offers free technology short courses to IPFW students. Information Technology (IT) Services and CASA, working together, offer these courses to provide students with the computer-mediated communication skills they need for college and beyond. No registration is required. The classes last about 90 minutes and a schedule can be found on the IT Services and CASA Web pages and on fliers posted on campus.

33. Transcripts and Academic Records

The Office of the Registrar (Kettler 107) can provide official transcripts for students who have been enrolled at IPFW or any other IU or Purdue campus.

Copies of academic records (unofficial transcripts) for IPFW students are available from the registrar's office (Kettler 107).

34. Tutorial and Study-Skills Assistance

The Center for Academic Support and Advancement (CASA) (Kettler G23, 481-6817) may be of assistance for students who want to improve their basic academic and study skills, need tutorial help in regular college courses, or would welcome advice on returning to college after a long absence from the classroom. The center offers classroom instruction in reading and study skills. It oversees a peer tutoring program in The SPOT, Kettler G21, (260-481-5419) that offers free individual appointments and regularly scheduled drop-in sessions. For appointments, sign up online at www.ipfw.edu/casa. CASA is also the home of English-as-a-second-language advising, the Supplemental Instruction program, and the First Year Experience program. Tutoring services are also available through Diversity and Multicultural Affairs (Walb 118, 481-6608) and the IPFW Writing Center (Kettler G19, 481-5740).

35. Veterans' Services

The IPFW Veteran's Services coordinator provides educational support services for veterans of the U.S. military.

Veterans' benefits information and counseling for first-time, continuing, or transfer students is available from the VA-benefits certifying official in the registrar's office, Kettler Hall 107, 481- 6126. If you are receiving veterans' benefits, certification of your enrollment status is required each semester and should be requested at the registrar's office.

36. Voter Registration

Recent changes in the 1998 reauthorization of the U.S. Higher Education Act require colleges and universities to make available voter registration forms to all enrolled students. Any student not registered to vote may obtain an Indiana Mail-In Voter Registration Application (VRG-7i) form, which is available at various convenient locations throughout the campus. Please visit the Office of the Registrar's Web site, www.ipfw.edu/registrar/ and click on Voter Registration for more information.

The forms will be available at the following:

Bursar Office - Kettler Hall
Diversity and Multicultural Affairs - Walb Union
Financial Aid Office - Kettler Hall
Office of the Registrar - Kettler Hall
Office of the Dean of Students - Walb Union
Gates Sports Center
Information Center - Kettler Hall Lobby
Walb Student Union Information Desk - Lobby
All School Dean's Offices

To be eligible to vote in Indiana, you must

- be a citizen of the United States
- be at least 18 years old on the day of the next general or municipal election

- have lived in your Indiana precinct for at least 30 days before the next election, and
- not currently be in prison after being convicted of a crime.

37. Writing Center

The Writing Center (Kettler G19, 481-5740) serves students, faculty, and staff with any university-related writing project in any discipline. The center's mission is to help all writers produce clear writing appropriate to their audiences. Knowledgeable consultants help writers brainstorm, focus, organize, and develop their ideas as well as learn how to better cite sources and revise and proofread their own drafts.

For free 30- or 50-minute, one-on-one or small group appointments, students sign up through TutorTrac (www.ipfw.edu/casa/wc). Faculty and staff make appointments through the assistant director. Students may also, without an appointment: 1) drop in for quick writing help, 2) use the open lab computers in Kettler G19 to write their papers, and 3) use the Writing Center's library of resources about writing.

For online consulting and further information, visit the Web site at www.ipfw.edu/casa/wc.

Writing Center hours: Monday-Thursday 10 a.m.-6 p.m.; Friday 10 a.m.-2 p.m.; and Sunday 1-5 p.m.

Part 7. Regulations, Policies, Rights, & Responsibilities

Click on a link to be taken to the entry below.

Academic Regulations

1. Definitions
2. English Language Proficiency
3. Advanced Credit
4. Transfer Credit
5. Special Credit, Credit for Military Service, and Excess Undergraduate Credit
6. Placement Tests
7. Registration and Course Assignment
8. Attendance
9. Academic Honesty
10. Final Examinations
11. Grades
12. Grade-Point Averages
13. Academic Standing
14. Degrees
15. Minors
16. Transcripts
17. Encumbrances
18. Grade Appeals

IPFW Policies

1. Admission
2. Affiliation with Indiana University or Purdue University
3. Residency
4. Student Identification Number
5. Fees and Expenses
6. Enrollment Certification
7. Affirmative Action, Nondiscrimination, and Nonharassment
8. Release of Student Information
9. Parking and Traffic Regulations
10. Smoking
11. Drug and Alcohol Abuse Prevention
12. Ethical Guidelines for Student Computer Users

Code of Students Rights, Responsibilities and Conduct

- Part I. Student Rights and Responsibilities
- Part II. Student Conduct Subject to Disciplinary Action
- Part III. Student Disciplinary Procedures and Campus Appeals Board
- Part IV. Policy on Students with Mental Disorders
- Part V. Student Complaint Procedures
- Part VI. Authority, Application, and Amendments

Academic Regulations

The following academic regulations were in effect for all undergraduate students at the time of printing. Changes go into effect periodically and are published in the *Schedule of Classes*. The academic regulations are arranged as follows:

1. Definitions

Certain terms have very specific meanings in these regulations. These terms are defined as follows:

Academic record Each student's IPFW cumulative record as maintained by the registrar in accordance with these academic regulations. Your IPFW academic record is the sole basis upon which all questions relating to such matters as grades, graduation requirements, academic standing, and scholastic recognition are resolved. Since official transcripts are produced using Indiana University and Purdue University procedures, your official transcript may, as noted in these regulations, vary somewhat from your IPFW academic record.

Credit The semester hour, often also called "credit hour" or "hour." Credit can be resident credit or transfer credit, as described below:

Resident credit: credit earned at IPFW or at another campus of the university through which you are enrolled at IPFW. There are two types of resident credit - course credit and special credit. Each is defined as follows:

Course credit: resident credit you earn on the basis of your enrollment in and satisfactory completion of courses.

Special credit: resident credit awarded by IPFW and based on factors other than your enrollment in and satisfactory completion of courses. There are three types of special credit:

Credit by examination: credit awarded on the basis of your achievement on a divisional or departmental proficiency examination.

Division/department credit: credit for a course offered by a division/department and granted on the basis of substantially equivalent experience. Only the director/chair of the division/department that offers the course is authorized to award this type of credit.

Achievement credit: credit granted on the basis of your achievement on a nationally administered college-level examination.

Transfer (nonresident) credit: Credit earned from another university (other than IPFW or another campus of the university through which you are enrolled at IPFW). Transfer credits are evaluated by Admissions and accepted as transfer credit if completed at a regionally accredited institution with a grade of C- or better. Designations of plus and minus that accompany these grades will be disregarded in the evaluation of this credit.

Credit accepted as transfer credit will be equated to IPFW course numbers (or classified as "undistributed" if not equivalent to IPFW courses), and posted to your academic record at the time you matriculate or re-enter IPFW. The academic-record entry includes the name of the transfer institution, the years you attended, and the individual courses accepted for transfer. Your IPFW school/division or department determines how credit earned at other institutions and accepted by IPFW applies to your plan of study, and the dean/director or chair of your IPFW school/division or department may request an adjustment of transfer-course equivalencies.

Student classification: a system for classifying undergraduate students who have been regularly admitted to IPFW. Classification is determined by your advisor, and should reflect the credits you have accumulated or your progress toward completing the specific requirements of the degree program in which you are enrolled. When your classification is being determined for a future academic session, your advisor will also include courses and credits that you expect to complete by the time that session begins.

Classification

Credits Completed Toward Degree

Freshman	Normally fewer than 30
Sophomore	Normally 30-59
Junior	Normally 60-89
Senior	Normally 90 or more

The registrar may establish additional classifications to serve IPFW's record-keeping needs. Thus, your official transcript may show somewhat different codes.

Beginning student: a student enrolling in college courses for the first time, or a student who has completed a small number of credits while in a temporary admission status, most often while still a high school student.

Advanced placement: the admission of students to courses beyond the first course or courses in an established sequence, but without granting credit for earlier courses in the sequence.

Substitution: the replacement of a course required in a program with another course specified by the school/division or department that established the requirement.

Excusing: the replacement of a course required in a program with an equal number of credits from other courses not specified as "required." Such an excuse requires approval of the school/ division or department that established the course requirement.

Work not scheduled for a regular fall or spring semester: course work offered during a summer session or during a period of time that differs from a regular 16-week semester, and that is equivalent in content, contact hours, and credit value to course work offered during a regular semester. Because the length of the course differs from the regular semester, all deadlines and time periods will be prorated.

Intensive course: a course that meets for extended class times but for fewer weeks than the course would meet in a standard summer session.

Pass/not-pass option: an enrollment option that generally limits course grades to P (pass) and NP (not-pass). You may use the option to take only elective courses with limited concern for the grade. You may not elect this option for more than 20 percent of the credits required for graduation or in courses for which you have already earned a grade. Under the P/NP option, Indiana University students who earn a grade of D or F have that grade recorded on their official transcripts. Purdue University students who earn a grade of D or F have a grade of N recorded on their official transcripts.

Auditor: a student who enrolls in a course, attends class, pays full fees, but does not receive a grade or credit for the course.

Cheating: dishonesty of any kind with respect to examinations, course assignments, or alteration of records.

Plagiarism: a form of cheating in which the work of someone else is offered as one's own. The language or ideas thus taken from another may range from isolated formulae, sentences, or paragraphs, to entire articles copied from printed sources, speeches, software, or the work of other students.

Grade-point average (GPA): a numerical calculation or report of grade averages. IPFW, Indiana University, and Purdue University GPAs are based on a four-point system with grades of A equated to 4.00 points, grades of F equated to 0.0 points, and other grades scaled accordingly (see 11. Grades).

NOTE: Prior to June 1993, Purdue University transcripts and related Purdue University records were computed on a sixpoint scale (A = 6.00) rather than the four-point scale (A = 4.00) used by IU and IPFW. Since June 1993, all IU, Purdue, and IPFW GPAs are computed using the same four-point scale (A = 4.00).

2. English Language Proficiency

The language of instruction at IPFW is English. Therefore, your ability to read, write, speak, and understand English is vital to your academic success.

Prior to admission, IPFW Admissions will determine if you have a native language other than English. If you do, you will be classified as an ESL (English as a second language) student unless you have transfer credit for an English composition course that carries credit toward graduation. ESL students must submit scores on the TOEFL or an equivalent test approved by the Center for Academic Support and Advancement (currently the Michigan Test) and are admitted with the condition that they achieve appropriate competency levels in English composition. Based upon TOEFL or equivalent test scores, the Center for Academic Support and Advancement will determine if you need ESL instruction. If you are exempt from ESL course requirements, you will be subject to the regular English placement-testing and course-completion requirements described in these regulations. If you are not exempt, you will:

- be admitted only to the Center for Academic Support and Advancement (unless you score the equivalent of 550 or above on the TOEFL and meet the admission requirements of a degree-granting academic unit). If you are admitted in this fashion to the Center for Academic Support and Advancement, you will not be eligible for admission to another academic unit until you have completed ESL-related requirements.
- enroll in the appropriate ESL course each semester until the requirement is satisfied.
- complete the prescribed series of ESL courses within your first 36 credits at IPFW.

The Center for Academic Support and Advancement has authority to alter your registration if these requirements are not being met.

3. Advanced Credit

You can establish advanced credit in any of five ways:

College Board advanced-placement program. You can establish college credit based on an exam taken after completion of a highschool advanced-placement course. The test score necessary to support an award of credit varies depending on the test subject. Specific information is available from IPFW Admissions.

College-Level Examination Program (CLEP). This program evaluates nontraditional college-level education.

A guide to CLEP credit available at IPFW can be obtained from the Admissions office. No credit is awarded for General Examination performance.

Education while in U.S. military service. If you are a Purdue University or Indiana University student who (1) took foreign-language courses in service schools; (2) took courses from the Community College of the Air Force; or (3) are an Indiana University student who (a) completed courses that appear in the Evaluation of Educational Experience in the Armed Forces (b) took DANTES examinations, and/or (c) completed Air Force Flight School; you may be eligible for credit. Twelve credits are granted for completion of Officers' Candidate School. Each school/division determines whether credit for military service is applicable to the degrees it sponsors.

Directed Credit/Credit by Examination. For information about "testing out" of courses, see 5. *Special Credit, Credit for Military Service, and Excess Undergraduate Credit.*

Modern Foreign Languages Placement Test. If you begin foreign-language study in a second semester or higher course in French, German, or Spanish, you may be eligible for special credit for the courses below your placement level. You must apply for this credit through the Department of International Language and Culture Studies (CM 267, 481-6836); it is not granted automatically.

4. Transfer Credit

For general limits on credit transfer, see 14. Degrees.

To transfer credits to IPFW, you must request that every college or university you have attended send an official transcript of your work to IPFW Admissions. IPFW accepts credits only from academic programs at institutions accredited by regional

accrediting associations and only for courses in which you earned grades of C- or better. Specific IPFW degree programs may impose additional criteria. Grades do not transfer.

Changing between IPFW programs. To change from one IPFW academic program to another, you must complete the appropriate forms and secure the approval of the IPFW school/division offering the program to which you want to change. If the change affects your university affiliation (IU or Purdue), the registrar will notify Admissions, which will transfer all of your previously earned IPFW credits to the records system of your new university.

If you are a re-entering student who has not enrolled at IPFW during the previous 12 months, or if you are returning to IPFW after having attended another institution, you must specify your intended academic program on the appropriate re-entry or transfer-admission form. You must then submit this completed form to Admissions for evaluation.

Credit transfer between IPFW programs. When you change from one IPFW degree or certificate program to another, the school/division to which you are transferring will report to the registrar the status of every course you have taken. Each course you have completed, regardless of the grade you earned, will be classified into one of the following two categories:

- courses that are required for, or applicable to, your new program or which are substantially equivalent to, and are acceptable as, substitutes for such required courses.
- courses that are not applicable to your new program.

Grades you have earned in any courses that can satisfy a degree requirement, other than a "free elective," may not be deleted from the calculation of your graduation GPA.

5. Special Credit, Credit for Military Service, and Excess Undergraduate Credit

Credit by division/department examination. Opportunities for earning undergraduate credit by division/department examination are encouraged in order to expedite the education of qualified students. Toward this end, each academic division/department establishes procedures to consider candidates and to administer and grade such examinations. Each division/department also keeps a list of the principal courses available for credit by examination and test schedules if known.

You may request an examination for credit for a course if the course is available for credit by examination and if no grade in the course other than a grade of W or NC has been awarded. The examination will be at least as comprehensive as those given in the course, and will be graded satisfactory (performance comparable to that expected of a student who receives an A, B, or C in the course), or unsatisfactory. The registrar will record results of satisfactory performance on your academic record; no academic record entry will be made for unsatisfactory performance.

Achievement credit. Credit or transfer credit for nationally administered examinations (except the International Baccalaureate Program) will be awarded only after approval by the IPFW division/department that offers courses in the subject area.

For participants in the International Baccalaureate Program, an award of 3-8 credits will be made for each high-level examination passed with a score of 4 or above. IPFW Admissions will award undistributed credit in the appropriate disciplines until specific credit equivalencies are established by IPFW departments. No credit will be awarded for performance on subsidiary-level exams.

Credit for military service. Each school/division determines whether credit for participation in military service may be applied toward a degree.

Excess undergraduate credit. A senior with a GPA of 3.00 or better may, with written permission from both an authorized graduate advisor and the instructor(s) involved, enroll in up to 9 credits in excess of the requirements for graduation, in courses intended for use in a graduate program. Permission, if given, will be noted on forms supplied by the registrar, who shall make a transcript notation of the special status of these credits. Instructors will impose graduate-level standards in these courses.

6. Placement Tests

All regularly admitted first-year students must take free English, reading, and math placement tests before registering for any courses. Unless credit in equivalent college-level introductory English and mathematics courses has been earned elsewhere,

temporary and transfer students must take these tests before they are permitted to (1) register in any English or mathematics course and (2) accumulate more than 12 credits at IPFW. SAT I or similar achievement-test scores are not substituted for the IPFW placement-test results.

You should take these tests as soon as possible after you are admitted to the university. The placement-test schedule is available from Testing Services (Kettler 232, 481-6600). Placement test results are valid for only two years from the date the tests are taken.

If your placement scores indicate a need for developmental English (ENG W130 or P131) or mathematics (MA 109 or 113), you must satisfactorily complete these courses within the first 24 credits of your IPFW course work. If your scores indicate a need for developmental reading (ENG R150), you must satisfactorily complete this course within your first two enrollment periods.

Foreign language. If you studied French, German, or Spanish for two or more years in high school and wish to continue to study that language, you must enroll in the appropriate 113 course, unless you graduated from high school five years or more prior to enrolling at IPFW. The 113 course is equivalent to the second semester of the first year, but incorporates a review of what is studied in French, German, or Spanish 111. No placement test is required for enrollment in 113. Students who graduated from high school five years or more prior to enrolling at IPFW may start their foreign language over by enrolling in 111, or they may take a placement test to determine whether they might be successful in 113.

If you completed three or more years of high-school French, German, or Spanish, you are urged to take the foreign-language placement test in order to determine whether you can place higher than 113. Call 481-6600 to schedule a free foreign language test.

If you studied French, German, or Spanish at a college or university and have transfer credits, please contact the Department of International Language Cultural Studies (CM 267, 481-6836) before enrolling in additional classes in that language.

English as a second language. If you have been designated as an ESL student, consult 2. English Language Proficiency.

7. Registration and Course Assignment

Registration procedures. You must register for courses in accordance with procedures and guidelines prescribed by the registrar.

Your initial registration for each term must occur according to the timetables for registration established for each semester/session and published in the Schedule of Classes. In most cases, you will register for classes at your school/division or department office, the registrar's office, or via the Web registration system.

Academic load. The following maximums apply to your enrollment at IPFW:

Limit with special permission. Your academic load may not exceed 18 credits in a regular semester or 8 credits in a summer session unless unusual circumstances exist and you have been granted special permission by your academic advisor.

Absolute maximum in any academic session or intensive course. You will not be allowed to register for a class, or combination of classes, that generates more than 1.5 credits per week. You will not be allowed to register for more than one intensive course at a time. Courses for which you register as an auditor are included in the calculation of your academic load.

Enrollment status. For most purposes, undergraduate students are considered to be full-time students when enrolled in 12 or more credits during a semester and part-time students when enrolled in 11 or fewer credits during a semester.

Course prerequisites and corequisites. Before you begin a course, you must have satisfied all prerequisites and corequisites or secured the instructor's or sponsoring division/department permission. At the request of the instructor or the division/department through which a course is offered, the registrar may withdraw you from a course for which you have not satisfied all prerequisites and corequisites.

Auditing. You may enroll as an auditor by noting "Auditor" (A) in the appropriate space on your registration form, and by completing the normal registration procedures established by your division/department. You may not enroll as an auditor if you have been dismissed from IPFW.

You will be assigned a grade of W or NC and will not receive academic credit for a course in which you enrolled as an auditor. However, under the rules of a division/department examination, you may later be allowed to earn credit for a course you have audited.

Schedule revisions and late registration. After your initial registration, you may revise your schedule in accordance with the policies listed below. In all cases, you must submit the completed schedule-revision (drop/add) form with appropriate signatures to your division/department or the registrar's office. All schedules and deadlines are prorated for courses not meeting for an entire 16-week semester. An academic advisor's approval may be required to process a course addition or withdrawal at the registrar's office.

Addition of a course. You may add a course after your initial registration by submitting a completed schedule-revision (drop/add) form with appropriate signatures to your division/ department, to the registrar's office, or via the Web registration system.

<i>Weeks</i>	<i>Restrictions</i>
Through Week 1 of classes	School/division policies determine whether an academic advisor's approval is required.
Weeks 2-4	Approval of the instructor is required. School/division policies determine whether an academic advisor's approval is required.
Weeks 5-9	Approval of the instructor and of your dean or division director is required. School policies determine whether an academic advisor's approval is required. Approval will normally be given only when extenuating circumstances are involved.
Weeks 10-16	Courses cannot normally be added during this time.

Withdrawal from a course. Subject to the time limits below - and in the absence of any allegation that you are guilty of academic dishonesty in the course - you may officially withdraw from a course by presenting a schedule-revision (drop/add) form with appropriate signatures to your division/department, to the registrar's office, or via the Web registration system.

<i>Weeks</i>	<i>Restrictions</i>
Through Week 4 of classes	School/division policies determine of classes whether an academic advisor's approval is required; the course is not recorded on your record.
Weeks 5-9	Approval of the instructor is required. School/division policies determine whether an academic advisor's approval is required.
Weeks 10-16	Approval of the instructor and of your dean or division director is required. School policies determine whether an academic advisor's approval is required. Approval will normally be given only when extenuating circumstances are involved.

During Weeks 10-16, a course may be dropped and a grade of W assigned if you receive approval of your academic advisor and your dean/division director, after the latter has consulted with the instructor. Such drops will not be approved if sought because of your poor performance in the course.

After the end of the Week 16, a course may be dropped only by following the change-of-grade procedure.

Change of Pass/Not-Pass (P/NP) option. Prior to the end of the fourth week of an academic semester (or equivalent period during a summer session), you may add or remove the P/NP option for a course by obtaining the signature of an academic advisor next to the appropriate notation on the schedule-revision (drop/add) form, and by processing the form in the prescribed manner.

Change of Auditing option. Prior to the end of the fourth week of an academic semester (or equivalent period during a summer session), you may change from audit to credit status by obtaining the signature of an academic advisor next to the appropriate notation on the schedule-revision (drop/add) form, and by processing the form in the prescribed manner. Prior to the end of the ninth week of an academic semester (or equivalent period during a summer session), you may change from credit to audit status in the manner specified above.

NOTE: All deadlines and time periods will be prorated for courses offered during a period of time that differs from a regular 16-week semester.

Withdrawal from the university. Withdrawal from the university is accomplished by withdrawing from each course in which you are enrolled.

Withdrawal for military service. Any student called to active military duty may present a copy of their military service orders and (a) withdraw from all courses and receive a 100 percent refund of tuition and fees at any time during the semester through the end of final examinations or (b) with the permission of each instructor, receive an Incomplete or final grade in the courses taken. Such requests and documentation may be presented by the student or other responsible party who has the student's permission to make the request. Refunds of fees will not be made if the student receives a grade and credit for the course, and all refunds will be adjusted as required by financial aid regulations. If a withdrawal is processed after the fourth week of classes, the grade of W will be assigned.

Withdrawal for personal circumstances. Students who seek to withdraw from IPFW after the ninth week of classes based on personal circumstances should contact the dean of students for guidance about the process.

8. Attendance

You may not attend a class (1) before completing official registration procedures, (2) after officially withdrawing from the class, or (3) after your registration has been canceled.

You are expected to attend every meeting of the classes in which you are registered. Work missed during absences may be made up if permitted by the instructor. At the beginning of the academic session, each instructor will provide a clear statement to all students regarding his or her policy for handling absences.

If you must report your class attendance in order to satisfy requirements of financial-aid sponsors, you must present the sponsor's certification form to each of your instructors. Each instructor will certify your attendance by completing the form. Unless you have made a prior agreement with your instructor, he or she will not be obligated to certify your attendance for more than the most recent class.

Discontinuing class attendance and not fulfilling course requirements is regarded as an unauthorized withdrawal and will result in your receiving a grade of F.

9. Academic Honesty

Policy. Academic honesty is expected of all students. You are responsible for knowing how to maintain academic honesty and for abstaining from cheating, the appearance of cheating, and permitting or assisting in another's cheating.

Your instructor is responsible for fostering the intellectual honesty as well as the intellectual development of students, and for applying methods of teaching, examination, and assignments that discourage student dishonesty. If necessary, your instructor will explain clearly any specialized meanings of cheating and plagiarism as they apply to a specific course.

Your instructor will thoroughly investigate signs of academic dishonesty, take appropriate actions, and report such activity properly to prevent repeated offenses and to ensure equity.

Procedures. An instructor who has evidence of cheating will initiate a process to determine guilt or innocence and the penalty, if any, to be imposed.

During an informal conference held within 10 class days of discovering the alleged cheating, your instructor will inform you of charges and evidence and allow you to present a defense. Your instructor will make an initial determination after this conference. You may be assigned a grade of Incomplete (I) if the matter cannot be fully resolved before course grades are due in the registrar's office.

Reporting. During the period in which you are permitted to drop courses, the instructor will inform the registrar promptly of any allegation of cheating, so that you cannot withdraw from the course. The instructor who makes an initial finding that academic dishonesty has been practiced will impose an academic sanction. Then, within 10 class days, the instructor will supply a written report to you, the chair of your department, the dean or director of your school or division, and the dean of students. The report will summarize the evidence and penalties assessed.

Appeal. If your course grade is affected by the penalty, you have the right to appeal the penalty imposed by an instructor in accordance with the grade-appeals policy (see 18. Grade Appeals).

10. Final Examinations

Next-to-last week. No instructor may schedule an examination - comprehensive or noncomprehensive - except for laboratory and practicum courses, during the week preceding the last week of a fall or spring semester.

Final week. With the exception of courses classified as individual instruction, clinic, studio, practice teaching, or research and those offered for 0 credits, each class is expected to meet for a two-hour session during the last week of each fall or spring semester. The two-hour session is to be used for (1) a final examination; (2) a last, noncomprehensive examination; (3) submission of an out-of-class examination or assignments; or (4) a regular class meeting.

Conflicts. If you (1) are scheduled to take more than two final examinations in one day, (2) have conflicting final examinations, or (3) are scheduled to take a state, national, or professional licensing examination, you may contact the instructors involved prior to the last week of a fall or spring semester to obtain appropriate rescheduling. If you and the instructors cannot agree upon a rescheduling, the vice chancellor for academic affairs shall investigate and issue a binding schedule.

Absences. If you miss a final examination because of an emergency, you must contact the instructor as soon as possible. If you miss a final examination, you may receive a grade of F for the course.

11. Grades

Basis of grades. Your instructor is responsible for explaining to you, preferably in writing at the beginning of an academic session, the course requirements and grading system to be used. You will be assigned a grade in each course at the close of the session. You are responsible for the completion of all required work in each course by the time of the last scheduled class meeting or other deadline set by the instructor, unless you have officially withdrawn from the course, or unless you and the instructor have agreed that a grade of Incomplete (I) is warranted.

Semester Grades. The following grades may be assigned:

- A Highest passing grade
- B Above-average passing grade
- C Average passing grade
- D Lowest passing grade
- F Failure or unauthorized discontinuance of class attendance; no credit

- I Incomplete. A temporary record of passing work that (1) was interrupted by circumstances beyond the student's control or (2) represents satisfactory work-in-progress in an independent-study or self-paced course.
- IF Unremoved incomplete, Failing. Recorded for failure to achieve a permanent grade by the deadline stated in these regulations. Indiana University students who receive this grade will have a grade of F recorded on official transcripts.
- NC Completion of the course as an auditor; carries no credit.
- NP Not passing grade when enrolled under the P/NP enrollment option. Purdue University students who receive this grade will have a grade of N recorded on official transcripts.
- P Passing grade. Under the P/NP option, equivalent to a grade of A+, A, A-, B+, B, B-, C+, C or C-.
- S Satisfactory, credit. Awarded by the registrar upon satisfactory performance in a course offered only on an S/F basis, or on a departmental/divisional examination, or another award of special credit, or completion of a 0- credit course. Purdue University students who receive this grade will have a grade of P recorded on official transcripts whenever the course involves one or more credits.
- W Withdrew. A record of the fact that the student officially withdrew from (dropped) a course or was administratively withdrawn from a course for nonpayment of fees after the end of the fourth week.

Pass/Not-Pass (P/NP) option. The P/NP grade option provides a limited opportunity for you to take "free electives" with minimal concern for grades you earn. You must fulfill the same requirements as others enrolled in courses for which you elect this alternative. Instructors are not advised that you have registered for their courses under this option.

Your use of this option is subject to the three general limitations listed below. However, your school/division or department may impose additional restrictions.

- You may not elect this option for courses that fulfill specific graduation requirements other than total number of credits (i.e., only for "free-elective" courses).
- You may not elect this option for more than 20 percent of the credits required for graduation.
- You may not elect this option for any course in which you have already earned a grade of A, B, C, D, or F.

If you earn a grade of A, B, or C under this option, it will be changed to a grade of P by the registrar and posted to your transcript. However, if you are enrolled at IPFW as an Indiana University student, grades of D or F that you earn under this option will be posted to your transcript without change. If you are enrolled at IPFW as a Purdue University student, grades of D or F which you earn under this option will be changed by the registrar to a grade of NP and will be posted to your official transcript as a grade of N. Grades of P and NP (or N) are not used in the computation of your GPA.

Incomplete. A grade of I may be granted to students (1) who are unable to complete specific course requirements for clearly unavoidable, nonacademic reasons (such as extended illness or relocation) and (2) whose work has been of passing quality up to that time. A grade of I will not be considered as an alternative to an anticipated low grade in a course. Certain IPFW schools/divisions or departments impose additional limitations on the use of I grades.

An instructor who reports a grade of I must provide the registrar's office with a form specifying (1) the reason for the incomplete, (2) the requirements for completing the course, (3) the grade earned for the course to date, and (4) the specific time limit, not to exceed one calendar year, allowed for completing the course.

An instructor may change the incomplete to a regular letter grade if requirements for completion of the course are not met within the time specified. Given extenuating circumstances, the initial time limit may be extended for a period not to exceed one additional calendar year if approved by the instructor and the instructor's dean/division director, and if the registrar's office is notified before the expiration of the original time limit.

The registrar's office changes the I to a grade of IF unless you graduate or remove the incomplete within the time allowed. If you are enrolled at IPFW as an Indiana University student and receive an IF grade, a grade of F is recorded on your official transcript. If you re-enroll in the same course while the I is still on your record, and the course is not repeatable for credit, the original grade of I remains on your official transcript.

If you transfer resident credit for a course in which you received an incomplete, you will have the grade of I recorded on your academic record for up to one calendar year from the date of admission to IPFW. At the end of this period, if you have not graduated or provided evidence that the incomplete has been replaced with a permanent grade, the registrar's office will change the incomplete to IF.

Final grade report. Your complete record for the session and your cumulative GPA are reported to you, your major department, and your school/division.

Changes of grade. An instructor who discovers within 30 days of the grade-processing deadline that a grade reported for you was in error, must promptly submit to the registrar a statement, countersigned by the instructor's department chair or division director, of the circumstances of the error and of the change to be incorporated in future GPAs. Correction of errors after this time requires the additional approval of the instructor's dean/director.

The registrar will inform you, the department chair/division director, and the dean of the change of grade.

You may seek a change of grade through the grade-appeals procedure (*see 18. Grade Appeals*).

You may retake any course. Unless the course is described in this *Bulletin* or its supplement as repeatable for credit, credit will be given only once for a repeated course, and only the most recent grade earned will be incorporated into graduation GPA calculations.

12. Grade-Point Averages

A grade-point average (GPA) is a weighted average of all credits for which a GPA-related grade (A, B, C, D, F, IF) has been assigned. The three GPAs used at IPFW are defined and computed (and rounded to two decimal places) as follows: Semester GPA is computed using only those credits for which you are assigned a GPA-related grade for the specified semester.

$$\text{Semester GPA} = \frac{4\text{NA} + 3\text{NB} + 2\text{NC} + \text{ND}^*}{\text{Total Credits}}$$

All credits for which a grade of A, B, C, D, F, or IF was assigned for a specified grading period.

Cumulative GPA is computed using all credits for which you are assigned a GPA-related grade with the exception of credits earned in those courses that have been repeated and are not repeatable for credit. All credits earned at IPFW or at another campus of IU or Purdue for which a grade of A, B, C, D, F, or IF was assigned are applicable.

$$\text{Cumulative GPA} = \frac{4\text{NA} + 3\text{NB} + 2\text{NC} + \text{ND}^*}{\text{Total Credits}}$$

All applicable credits for which a grade of A, B, C, D, F, or IF was assigned.

Graduation GPA is computed using credits for which you are assigned a GPA-related grade in only those courses that fulfill a graduation requirement with the exception of credits earned in those courses that have been repeated and are not repeatable for credit. If you are pursuing more than one degree program, your graduation GPA will be determined by the academic unit through which you register.

All applicable credits earned at IPFW or at another campus of IU or Purdue for which a GPA-related grade was assigned are included if they were received for courses that fulfill a graduation requirement.

$$\text{Graduation GPA} = \frac{4\text{NA} + 3\text{NB} + 2\text{NC} + \text{ND}^*}{\text{Total Credits}}$$

All applicable credits for which a grade- of A, B, C, D, F, or IF was assigned for only those courses that fulfill a graduation requirement.

* Where NA represents the number of credits assigned to the grade of A, NB the number assigned to the grade of B, etc.

Note: Prior to June 1993, Purdue University transcripts and related Purdue records were computed on a six-point scale, (A = 6.00) rather than the four-point scale (A = 4.00) used by IU and IPFW. Since June 1993, all IU, Purdue, and IPFW GPAs are computed using the same scale (A = 4.00).

13. Academic Standing

Good standing. For purposes of reports and communication to other institutions, and in the absence of any further qualifications of the term, you are considered in "good standing" unless you have been dismissed, suspended, or dropped from IPFW and not readmitted.

Academic recognition. At the conclusion of each fall or spring semester (but not any summer session), the registrar indicates which students are eligible for the following academic recognitions:

Semester Honors List for (a) having at least 6 credits included in the semester GPA, (b) achieving at least a 3.50 semester GPA, and (c) achieving at least a 2.00 graduation GPA.

Dean's List for (a) having at least 12 credits included in the graduation GPA, (b) having at least 6 credits included in the semester GPA, (c) achieving at least a 3.50 graduation GPA, and (d) achieving at least a 3.00 semester GPA.

If you have earned academic recognition for either of the two previous semesters, your achievements will be recognized at the annual Honors Convocation and appropriately noted on your academic records.

Recognition of completion of Honors Program. If you are certified by the Honors Program Council as having completed the requirements of the Honors Program, an appropriate academic record notation is made.

Academic probation, dismissal, and readmission. The following probation, dismissal, and readmission criteria are minimums for IPFW; academic units may set higher standards that become effective upon publication in the Bulletin or its supplement. If you are dismissed from a program for failure to meet the higher standards imposed by an academic unit, you must be accepted into another program before registering for a subsequent academic session.

Probation. You are placed on probation and are so notified by the university whenever your semester or cumulative GPA at the end of any regular semester is less than the minimum standards specified in the following table:

GPA Levels for Probation

Class	Semester	Cumulative
Standing	GPA	GPA
Freshman	1.50	1.50
Sophomore	1.60	1.70
Junior	1.70	1.90
Senior	1.70	2.00

An appropriate notation will be made on your academic record. Any grade change will require recalculation of your probation status. You are removed from probation upon achieving the minimum semester and cumulative GPA in the above table.

Dismissal. If you are on probation, you will be notified of dismissal by the university if, at the end of any regular semester, you (1) earn failing grades in 6 or more credits for that semester or (2) do not meet the minimum cumulative GPA requirements in the following table:

GPA Levels for Dismissal

Class Standing	Cumulative GPA
Freshman	1.30
Sophomore	1.50
Junior	1.70
Senior	1.90

An appropriate notation will be made on your academic record. Any grade change will require recalculation of your dismissal status.

Readmission. If you have been dismissed from IPFW or any other campus of Indiana University or Purdue University, you may not enroll at IPFW until one fall or spring semester has passed. Thereafter, you may be readmitted according to the procedures specified by the IPFW school/division into which you are seeking readmission.

If you have been dismissed from IPFW but have earned fewer than 12 credits in courses with GPA-related grades, you may be eligible for immediate readmission to the division/department from which you were dismissed and be exempted from the procedures and fees normally associated with readmission.

All readmissions are into probationary status. An appropriate notation will be made on your academic record.

14. Degrees

Schools and divisions may impose stricter requirements than those listed in this section, but may not waive the following minimum standards. Provided these minimum standards are satisfied, adjustments to any degree requirement may be made by the unit establishing that requirement.

Degrees offered. For completion of undergraduate plans of study of at least 60 credits, associate degrees may be conferred. For completion of undergraduate plans of study of at least 120 credits, bachelor's degrees may be conferred.

Requirements for degrees. If you enter a degree, certificate, or premajor program, you will be required to fulfill the requirements published in the Bulletin (or its supplement or departmental regulation) current at the time of your most recent entry or re-entry into that program at IPFW. Only with the written acknowledgment of an academic advisor can you elect to fulfill the requirements in any subsequent Bulletin or supplement.

Any new requirement for a degree, certificate, or premajor program may not be imposed on currently enrolled students in these programs if it would increase the number of credits or the number of semesters required for completion of the program.

The school/division/department committee in charge of curriculum matters may refuse to accept as credit toward graduation any course that was completed 10 or more years previously. Former students will be notified of all such decisions upon re-entering or when the credit is determined to be unacceptable.

To earn any associate or bachelor's degree at IPFW, you must satisfy the following four requirements:

1. You must complete, by resident credit or transfer credit, the plan of study underlying the degree, including
 - For an associate degree, registration in and completion of at least 32 credits of resident course credit, including at least 15 credits in courses applicable to the major.
 - For a bachelor's degree, registration in and completion of at least 32 credits of resident course credit at the 200-level or above, including at least 15 credits at the 300-level or above in courses applicable to the major.
2. Normally, you must complete the entire final year at IPFW. However, with the approval of your school/division and if you have satisfied the resident credit requirement, you may complete the remaining requirements in another approved college or university.
3. You must establish a graduation GPA of 2.00 or better.
4. You must register, either in residence or absentia, as a candidate for the desired degree during the academic session immediately preceding its conferral.

Double majors and double degrees. The academic unit sponsoring your programs shall certify your completion of each degree and any second major that you may have completed.

Double major. If you complete all the requirements for more than one program, you will be awarded a degree with a double major if (1) the requirements are completed at the same time; (2) the programs are offered by the same school or division and the same university at IPFW; and (3) the programs lead to the same degree, where "the same degree" means a B.A. (IU or Purdue), B.F.A., B.S. (Purdue only), or a B.S.C., etc.

Double degree. If you complete all requirements for more than one program, you will be awarded two degrees if the above requirements for a double major are not satisfied, except that Purdue University students who complete requirements for a second major leading to the same degree as originally earned shall have this major noted on their transcripts but shall not receive a second degree.

Graduation with distinction. To be a candidate for the bachelor's degree with distinction, you must have a minimum of 65 resident credits included in the computation of your graduation GPA. To be a candidate for an associate degree with distinction, you must have a minimum of 35 resident credits included in the computation of your graduation GPA. The required GPA, calculated each spring as outlined below, also applies to degrees for the following summer sessions and fall semester.

In each school or division, the minimum graduation GPA for graduation with highest distinction from a bachelor's-degree program shall be at least 3.80 (A = 4.00), but never less than the 97th percentile of the graduation GPA of the school or division's graduates.

In each school or division, the minimum graduation GPA for graduation with distinction from a bachelor's-degree program shall be at least 3.50 (A = 4.00), but never less than the 90th percentile of the graduation GPA of the school or division's graduates.

Also in each school or division, the requirements for graduation with highest distinction or with distinction from an associate degree program shall also be separately calculated as outlined above for bachelor's-degree programs.

Conferring of degrees. Degrees may be granted at the close of each academic session.

15. Minors

You may earn a minor by providing your division/department verification of your acceptance into the minor program, a statement of the minor-program requirements, and by successfully completing those requirements. You may choose any set of minor-program requirements in effect since your most recent admission or re-entry into IPFW. Completion of any minor requires a minimum of 12 credits, including at least 6 resident credits at the 200 level or above. Your division/department will certify your completion of the minor requirements as your degree certification is being processed.

Concurrent with the completion of your degree requirements, the registrar will make an appropriate entry on your transcript to denote completion of the minor. No entry will be made on your transcript if the minor is not completed by the time you are certified for graduation.

16. Transcripts

If your record is not encumbered for any reasons described herein, you will (upon application to the registrar and payment of any prescribed fee) be entitled to receive an official transcript of your complete record, including any major(s) and minor(s).

Note: The registrar's office is the only university office authorized to issue official transcripts. All requests for these documents must be directed to that office.

17. Encumbrances

If you are in arrears to IPFW, you are not eligible to receive transcripts or diplomas. The clearance of all financial obligations by the Friday before Commencement will be essential for graduation. If you clear the obligation later, the diploma will be released.

18. Grade Appeals

The Grade Appeals Policy applies to all students enrolled at IPFW. It can be used by any student who has evidence or believes that evidence exists to show that a course grade was assigned or a similar evaluation was made as a result of prejudice, caprice, or other improper condition such as mechanical error.

In appealing, the student must support in writing the allegation that an improper decision has been made and must specify the remedy sought. The student should seek the assistance of the dean of students in pursuing the appeal. During an appeal, the burden of proof is on the student, except in the case of alleged academic dishonesty, where the instructor must support the allegation. The student may have an advisor or friend present during all meetings with faculty members, administrators, and/or committees; he or she may advise the student but may not speak for the student during the meetings.

Grades may be changed only by a university authority upon the decision of the Grade Appeals Subcommittee or by the instructor any time prior to the decision of the Grade Appeals Subcommittee.

Appeal Deadlines. An appeal must be initiated no later than the fourth week of the fall or spring semester immediately following the session in which the grade was assigned. A final decision at each step must be reported within 30 calendar days of the filing of an appeal at that step, provided that this deadline falls within the regular academic year (fall or spring semester). If the deadline falls during the summer, the decision must be reported within 30 calendar days of the start of the fall semester. Each successive step in the appeals procedure must be initiated within three calendar weeks of the completion of the prior step.

Steps in the Process of a Grade Appeal

Step 1. *Course instructor:* The student makes an appointment with the instructor to discuss the matter. If the instructor is unavailable, the department or program chair shall authorize an extension of time or allow the student to proceed to Step 2. If the chair is unavailable, the dean of the school shall authorize the extension.

Step 2. *Department/school/program:* If the matter has not been resolved at Step 1, the student makes an appointment with the chair of the department or program offering the course, who may make an informal attempt to resolve the appeal. If the appeal is not resolved informally, the chair will direct the student procedurally in making an appeal to the department, school, or program committee. Only one committee shall hear the appeal in Step 2. The student filing an appeal shall have the opportunity to be heard in person by the committee.

Step 3. *Grade Appeals Subcommittee:* If the matter has not been resolved at Step 2, the student makes an appointment with the dean of students, who will direct the student procedurally in submitting the case to the Grade Appeals Subcommittee.

Department/School/Program Appeals Procedure Each department, school, or program will establish appeals procedures that provide for a committee of three or more faculty members responsible for hearing grade appeals related to courses listed or administered by that department/school/program if those appeals have not been satisfactorily resolved between the student and the instructor or informally by the department chair. The procedures established by each department, school, or program shall provide for each case to be heard by only one such committee. The procedure shall provide the opportunity for the student to be heard in person and for the decision to be reported in writing to the student and the instructor. A copy of each unit's procedures will be given to the vice chancellor for academic affairs, to the dean of students, and to students, upon request.

Grade Appeals Subcommittee This subcommittee shall consist of nine members elected from among the Voting Faculty according to procedures specified in the Bylaws of the Senate.

Before hearing the details of a case, the subcommittee will decide by majority vote whether to consider the appeal and will report its decision in writing within 30 calendar days. The bases for a decision to consider an appeal may include (but not be limited to) a finding that (1) improper procedures have been followed by university employees at earlier steps of the appeal; (2) new information is present; or (3) the instructor has declined to accept the department, school, or program committee's recommendation.

No member of the subcommittee may take part in an appeal involving a course or instructor from the member's department or program. Members should also recuse themselves from cases in which they have potential conflicts of interest, personal involvement, schedules that will interfere with hearing the appeal in a timely manner, or other disqualifying causes. From those members remaining, the chair will elect the five-person hearing panel. The panel members will elect a chair who will be responsible for making arrangements related to the case.

If the case is to be heard, the hearing will take place within 30 days of the decision to hear the appeal, or within 30 days of the start of the fall semester, whichever is applicable. Each member of the panel will vote on whether the appeal is valid, and if so, on what remedy should be provided. If the panel, by majority vote, finds in favor of changing a grade, the chair shall report this finding to the registrar and to the parties listed below. The decision of the panel is binding on all parties and may not be appealed.

Reporting of Subcommittee and Panel Decisions The subcommittee and each panel shall report its finding and actions to the student; the department, school, or program from which the appeal came; the instructor; the chair of the student's department; the dean or director of the student's school or division; the dean of students; and (in the case of a panel decision) the chair of the Grade Appeals Subcommittee.

IPFW Policies

The following IPFW policies were in effect for all undergraduate students at the time of printing. Changes go into effect periodically and are published in the *Schedule of Classes*. The policies are arranged as follows:

1. Admission

You must be admitted to IPFW before you are eligible to register for classes. Admission applications may be obtained from the Admissions office (Kettler 111, 481-6812 or 800-324-IPFW) or online at www.ipfw.edu/admissions. After submitting all necessary information, you may be admitted to Indiana University or to Purdue University based upon the degree program you have selected. IPFW admissions counselors are available to help with your selection. Please call the Admissions office for a personal appointment.

University requirements for admission are established by the trustees. Program-specific admission requirements, in addition to those established by the trustees, may be imposed by schools/divisions and departments. Any such requirements become effective when published in the *Bulletin* or appropriate supplementary publications. Applicants should be aware that certain criminal convictions may result in ineligibility for admission to certain programs of study.

Basic skills. As an applicant for regular admission to IPFW, you should already possess the following basic-level skills in reading, writing, and mathematics:

Reading. You should be able to identify the main and supporting ideas in moderately complex texts, identify the authors' purposes, and evaluate the logic, accuracy, and value of their writing. You should be able to recognize implications, inferences, and assumptions and to integrate information from your experience or reading with new information.

Writing. You should be able to write short (500-700 words) argumentative and expository essays and should have some familiarity with research and documentation. Your essays should be clearly organized and demonstrate an ability to develop a thesis through argumentation and evidence. You should display no major errors in spelling, syntax, punctuation, and usage.

Mathematics. You should be able to demonstrate arithmetic numeracy and mastery of the content of a substantial first-year high school algebra course and a high-school geometry course. You should be able to use problem-solving strategies and translate word problems into mathematical expression; to recognize relationships between variables in graphs; and to identify one-, two-, and three-dimensional figures and use the formulas that yield the dimensions, area, or volume of the figures.

Graduation and persistence rates. Graduation and persistence rate information for IPFW is available at www.ipfw.edu/registrar/information/student/.

Classification of applicants:

Applicants for undergraduate admission are classified into one of the following admission categories:

1. Beginning freshman. If you have never attended a college, you must submit an application, a high-school transcript or GED scores, and an application fee. Unless you graduated from high school more than two years ago, you must also submit SAT I or ACT scores.

To have your SAT I scores sent to IPFW, use code number 1336.

To have your ACT scores sent to IPFW, use code number 1217.

If you are a high-school student, you should apply as soon as possible after your junior year. Priority consideration will be given to applications for regular admission received by:

Aug. 1 for *fall semester*

Dec. 15 for *spring semester*

May 1 for *summer session I*

June 15 for **summer session II**

If your application and supporting materials are received after these deadlines, you either may be admitted on a temporary basis or advised to pursue regular admission for a subsequent semester.

If you are a high-school senior completing graduation requirements at the end of your seventh semester, you must meet all regular admission criteria listed below in order to enroll in the spring semester. If you have not met all requirements, you will be considered for admission for the following fall.

Admission requirements. If you graduated from high school more than two years before the semester for which you are seeking admission and earned a high school diploma (not a certificate of completion), IPFW will waive the general requirements listed below. However, some of the university's degree and certificate programs have admission requirements in addition to the campus requirements. These program-specific requirements are explained in Parts 3 and 4 of this Bulletin and cannot be waived.

Requirements for Indiana residents. As a resident of Indiana, you may expect to be admitted if you (1) are a graduate (which includes passing of the GQE) of an Indiana-accredited high school with a CORE 40 or Academic Honors Diploma, (2) submit satisfactory SAT I or ACT scores, (3) submit your application to IPFW on time, and (4) meet the following requirements:

Admission to Indiana University programs. You must rank in the upper half of your high-school class. Your high-school units (semesters) should include at least six units of mathematics (algebra, geometry, and advanced algebra) and six units of laboratory sciences (biology, chemistry, or physics), six units of social studies, four units of foreign language, and other units to total 32 units. Eight units of English are required.

Admission to Purdue University programs. Admission requirements for Purdue University programs vary as follows:

Programs in the School of Arts and Sciences: If you plan to complete a bachelor's degree with majors in mathematics or a science in four years, you should have completed the following in high school: one unit of trigonometry and two units of chemistry (for any science degree).

Programs in technology, organizational leadership and supervision, and consumer and family sciences require that you rank in the top two-thirds of your high-school class, and that your transcript shows eight units (semesters) of English, and two each of algebra, advanced algebra, geometry, and laboratory science.

For admission to programs in *engineering*, see admission requirements under the College of Engineering, Technology, and Computer Science.

For admission to programs in *nursing*, see admission requirements under the School of Health Sciences.

Other Purdue programs not having program-specific requirements require that you be in the top half of your highschool class and that your high-school transcript shows eight units (semesters) of English, and six each of mathematics, and laboratory science and social studies. IPFW defines mathematics as algebra, geometry, trigonometry, and calculus. Laboratory sciences include biology, chemistry, and physics.

Additional requirements for nonresidents. If you are not a resident of Indiana, you must meet the regular admission criteria for Indiana University or Purdue University and those for the program of study you have selected, and must generally rank in the top half of your high-school graduating class.

Exploratory. If you graduated from high school within the past two years, have not attended another college or university, and do not meet the standards for regular admission, you may be eligible to begin as an exploratory student.

To be admitted as an exploratory student, you must rank in the top 80 percent of your high school graduating class; have completed eight units of English, two units of academic algebra, two units of academic geometry, and two units of laboratory science; and one of the following:

- rank in the top 80 percent of your high school graduating class, or
- have a combined SAT score of 1120 or above or an ACT composite score of 16 or above.

Contact an IPFW Admissions counselor if you do not qualify for admittance as an exploratory student and wish to discuss your options.

Exploratory students receive academic advising through Academic Counseling and Career Services (Kettler 109, 481-6595).

Applications and other required materials must be received by July 1 for fall semesters and by Dec. 1 for spring semesters.

2. Intercampus transfer from Indiana University or Purdue University. If you are currently attending, or have attended, another IU or Purdue campus and want to transfer temporarily or permanently to IPFW, you must submit an application, an unofficial transcript from your IU or Purdue campus, and official transcripts from any colleges attended since your enrollment at IU or Purdue. No application fee is due.

3. Transfer. If you have attended college but never attended IPFW, IU, or Purdue, you must submit an application, a high-school transcript or GED scores, an application fee, and official transcripts from all colleges you have attended. A cumulative GPA of 2.00 (C) or higher is required. If your grades are deficient, you may be considered for admission for the following semester.

4. Re-entry. If you previously attended IPFW but have not registered for classes at IPFW for more than one year, you must submit an application, unofficial IU or Purdue transcript(s), and official transcripts from any colleges attended since your enrollment at IU or Purdue. No application fee is due.

Since your re-entry is subject to the approval of the specific division/department you wish to re-enter, one or more working days may be required to process your application before you can register for classes.

5. Special high school. If you are a high-school junior or senior ranking in the top third of your class, you may take up to 24 credits as a temporary student. You must submit an application, a high-school transcript, and a high-school recommendation form (available from IPFW Admissions); SAT I or ACT scores may be requested. No application fee is due.

6. Special adult. If you graduated from high school more than two years ago and have not attended college, you may take up to 24 credits at IPFW as a temporary student. You must submit an application but need not submit an application fee or additional documentation.

7. Special college graduate. If you hold a bachelor's degree and wish to take undergraduate courses but do not plan to pursue another undergraduate degree, you may take up to 24 undergraduate credits as a temporary student. You must submit an application but need not submit an application fee or additional documentation.

8. Guest. If you want to become a visiting student from another college outside the IU or Purdue systems, you may enroll temporarily at IPFW for up to 24 credits. You must submit an application and an official transcript from your home institution. No credits will be evaluated for transfer to IPFW. No application fee is due.

Institutional, state, and federal financial aid is not available to special adult students, graduate nondegree students, special high-school students, and guest students. These are temporary/ nondegree-seeking classifications.

Regular admission of a temporary student. If you are admitted in temporary status, you may apply for regular admission. After you have earned 24 credits in temporary status, you may register for additional credits only after you apply for and are granted regular admission. Exceptions are considered by the registrar upon the recommendation of the school/division or department through which you last registered. If you are granted regular admission, you will be notified as to which of the courses you completed as a temporary student may be applied to satisfy the requirements of your degree program. An application fee will be charged. If you are denied regular admission, you will be notified of the reasons for this decision.

Academic renewal. This option may be available to you under the following conditions:

- You were previously admitted to and completed classes at IPFW;
- You have not registered for classes at IPFW or any other campus of Indiana University or Purdue University for five or more calendar years; and
- The school/division through which you re-enter IPFW provides this option for eligible students.

If you are eligible for the academic-renewal option, a participating school/division may exclude from the calculation of your graduation GPA grades you previously earned that are considered to be below "passing." However, both these grades and the courses in which they were earned will remain on your official academic record.

You must request this option; it must be exercised during the re-entry semester and can be employed only one time per student. For additional information, please contact the school/division that offers the degree you are seeking.

2. Affiliation with Indiana University or Purdue University

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IPFW is a campus of both Indiana University and Purdue University. If you are enrolled at IPFW as an Indiana University student and transfer to another campus of Indiana University, all credits and grades you have earned will be retained on your academic record. The same is true if you are enrolled at IPFW as a Purdue University student and transfer to another campus of Purdue University. However, if you change your university affiliation when transferring from IPFW to another campus, courses completed at IPFW will be treated as transfer credit.

3. Residency

Resident student status for fee purposes. When you are admitted to IPFW, you are classified by the admissions office either as a resident or a nonresident of the State of Indiana. This classification is determined by rules established for all IPFW students by the trustees of Purdue University. If you are classified as a nonresident student, you must pay nonresident fees as shown in the schedule of fees.

Among other criteria, resident student status for fee purposes requires all independent students who enter or re-enter the State of Indiana to be domiciled in the state for 12 consecutive months before the first day of classes of the semester or summer session for which reclassification may be sought. If you think you are classified incorrectly, you may apply for resident student status. To appeal your residency classification, go to the following Web site and print off the application and instructions.

www.ipfw.edu/registrar/policies/residency.shtml/

When complete, return to IPFW Registrar, 2101 E. Coliseum Blvd., Fort Wayne, IN 46805-1499.

4. Student Identification Number

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You will be assigned a nine-digit number typically beginning with either 900 or 999 as your student identification number. It is used to identify records within IPFW and has no significance outside IPFW. It will not be provided to external agencies or individuals except in accordance with university policy on release of student information.

You are, however, required to provide IPFW with your Social Security number so that IPFW can issue certain informational returns to the Internal Revenue Service and to you. You are also required to provide your SSN on the Free Application for

Federal Student Aid if you desire to apply for federal or state financial aid. IPFW does not use your SSN as your student identification number, but only for those purposes required by law or governmental agencies.

5. Fees and Expenses

All fees are subject to change by action of the trustees. Fees for the 2006-07 school year are shown below:

Course Fees (may not apply to continuing-education courses)

<i>Undergraduate residents</i>	\$201.35 per credit
<i>Undergraduate nonresidents</i>	\$461.20 per credit
<i>Graduate residents</i>	\$248.25 per credit
<i>Graduate nonresidents</i>	\$536.05 per credit
<i>Distance learning classes</i>	\$254.15 per credit

If you audit a course, regular course fees are assessed.

Other Fees. The following fees are in addition to the course fees listed above.

<i>Admission application</i>	\$30
<i>Readmission application</i>	\$100
 <i>Late registration fee</i>	 \$8.50 per credit
 <i>(\$100 maximum)</i>	
 <i>Continuing Studies fee</i>	 varies

Refunds. Fee assessments and/or refunds are determined as of the date forms are submitted to the registrar's office in person or via the Web registration system, regardless of any other dates that may appear on the forms. Requests for exceptions to the refund schedule will be considered only to resolve problems that result from 1) documented errors made by university representatives or 2) other circumstances that are clearly the responsibility of IPFW. Requests and supporting documentation must be received by the registrar's office within the first two weeks of classes.

IPFW reserves the right to cancel courses and will refund all fees assessed. If you withdraw from a class, the following refund schedule will apply:

Number of Weeks	100%	60%	40%	20%	0%
14, 15, or 16	Days 1-7	Days 8-14	Days 15-21	Days 22-28	Thereafter
12 or 13	Days 1-7	Days 8-14	Days 15-21	Days 22-28	Thereafter
9, 10, or 11	Days 1-7	Days 8-14	Days 15-21	Days 22-28	Thereafter
8	Days 1-3	Days 4-7	Days 8-10	Days 11-14	Thereafter
7	Days 1-3	Days 4-7	Days 8-10	Days 11-14	Thereafter
6	Days 1-3	Days 4-7	Days 8-10	Days 11-14	Thereafter
5	Days 1-3	N/A	Days 4-7	N/A	Thereafter
4	Days 1-3	N/A	Days 4-7	N/A	Thereafter
3	Days 1-3	N/A	Days 4-7	N/A	Thereafter
2	Days 1-2	N/A	Days 3-4	N/A	Thereafter
1	Day 1	N/A	Day 2	N/A	Thereafter
Less than 1	Day 1	N/A	N/A	N/A	Thereafter

Notes: A 100 percent refund will be allowed through the day of the first class meeting, even if it occurs after the designated period.

Any course meeting for more than eight weeks will use the refund schedule approved for fall and spring semesters.

All calendar days are counted, including weekends.

If you are receiving federal Title IV financial aid (Stafford, Pell, Perkins, SEOG), and you make a full withdrawal, a calculation will be made to determine the amount of unearned aid that you will be required to repay. Specific information about this calculation may be obtained at the financial aid office or at www.ipfw.edu/financial.

Refunds are not transferable from one student to another. To qualify for a refund, your class withdrawal must be processed during the periods specified above. The refund schedule for off-campus credit classes offered through the Division of Continuing Studies may differ from the one above and appears in registration materials published by the Division of Continuing Studies.

Payment plan options. Payment plan options are available through the bursar's office.

Senior citizen fee-remission program. A waiver equal to one-half the resident tuition (to a maximum of 9 credits per semester) is available to Indiana residents who are age 60 or older, retired, not full-time employees, and high-school graduates or GED recipients. The waiver does not apply to fees. This program is available only during the week prior to the start of classes and also during late registration. Additional information and applications are available from IPFW Admissions (Kettler 103, 481-6812 or 800-324-IPFW).

6. Enrollment Certification

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The registrar's office is the only university office authorized to officially certify your enrollment status. All requests for enrollment certification should be directed to that office. Your enrollment status for a specific semester/session can be certified only after classes for that semester/session have begun and will be reported only as of the date requested.

7. Affirmative Action, Nondiscrimination, and Nonharassment

IPFW is committed to maintaining a community that recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the university seeks to develop and nurture diversity. The university believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life.

IPFW views, evaluates, and treats all persons in any university-related activity or circumstance in which they may be involved solely as individuals on the basis of their personal abilities, qualifications, and other relevant characteristics.

IPFW prohibits discrimination against any member of the university community on the basis of race, religion, color, sex, age, national origin or ancestry, marital status, parental status, sexual orientation, disability, or status as a disabled or Vietnam-era veteran. The university will conduct its programs, services, and activities consistent with applicable federal, state, and local laws, regulations, and orders and in conformance with the procedures and limitations as set forth in Purdue University's Executive Memorandum No. D-1, which provides specific contractual rights and remedies. Additionally, the university promotes the full realization of equal employment opportunity for women, minorities, persons with disabilities, and Vietnam-era veterans through its affirmative action program.

If you have a question or complaint, or want advice, you may talk with the affirmative action officer or an official designee (Kettler 110N, 481-6106) or the director of Services for Students with Disabilities (Walb 113, 481-6657).

8. Release of Student Information

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The IPFW policy governing access to student records, which complies with the *Family Educational Rights and Privacy Act of 1974*, is described below:

Definitions:

A *record* includes any data or information about you and related individuals, regardless of the media used to create or maintain the record.

Educational records include records maintained by the institution but exclude records maintained by individuals and available only to those individuals or designated substitutes (that is, "personal files"). Your educational records are located and maintained by administrators in one or more of the following offices: Academic Counseling and Career Services; Admissions; Alumni Relations; Athletics, Recreation, and Intramural Sports; Bursar; Center for Academic Support and Advancement; Continuing Studies; Financial Aid; Honors Program; Police and Safety; Registrar; student affairs administration; and academic units.

Note: The registrar's office is the *only* university office authorized to issue official transcripts and certify students' enrollment status. All requests for such documentation must be directed to that office.

Public information consists of your name, class standing, school/division, major field of study, dates of attendance, degrees and awards, recognized student activities, sports, athletics information, and current enrollment status; your address and telephone number are also public information unless you have filed a registrar's form to keep these private. Records of arrests and/or convictions are public records and thus not subject to university policy.

Note: If you wish to restrict the release of your address and telephone number, you must do so by the end of the first week of classes for a session in order to exclude this information from any student directory that may be published.

Release in emergencies. The confidentiality of all records may be broken in an emergency if deemed necessary by the severity of the emergency, the usefulness of the records, and the extent to which time is critical.

Release to you. Your records are available to you with the following exceptions: confidential letters of recommendation submitted prior to 1975; records of your parents' financial status; records related to your student employment that are subject to other laws and are administered by the Human Resources office; medical and psychological records, which will be released only to a healthcare professional designated by you; and, if you signed a voluntary waiver of access, letters of recommendation related to admission, candidacy for awards, and candidacy for employment - these records may be used only for the purpose originally intended.

You may see any of your available records within 30 days after submitting a written request, either in person or by mail, and may copy any of these records, subject only to payment of any applicable copying charges. You will receive an interpretation of the record upon request, at or after the time that access is granted.

If you object to any part of your record and the responsible office will not revise the record as requested, you may request a formal hearing concerning the objection. Policies and procedures governing the hearing process will be specified by the vice chancellor for academic affairs.

Release to IPFW faculty and staff. Your records are available to members of the faculty and staff who have a legitimate need for them, as determined by the administrator of the office responsible for maintenance of the record.

Release to others. Except as specified below, your records will be released only upon completion of a consent form or letter you have signed. Any such release will include a notice that further release by the recipient is prohibited by law. A record of the release will be maintained.

Records about you will be released without your consent to your parents if you are a dependent as defined by the Internal Revenue Service; to federal officers as prescribed by law; as required by state law; to agencies or individuals conducting educational research, provided that the administrator of the records is satisfied concerning the legitimacy of the research effort and the confidentiality to be maintained by the researcher; to agencies responsible for accreditation of the institution or its programs; in response to a lawful subpoena, after making reasonable attempts to provide prior notification and opportunity for objection by you; and to institutional security officers when necessary for a criminal investigation.

Retention of records. IPFW reserves the right to maintain only those records it considers useful and to set retention schedules for various categories of those records. However, the administrator responsible for each category of records will ensure that a record being challenged is not destroyed prior to resolution of the dispute.

9. Parking and Traffic Regulations

Parking. You are charged a parking fee based on the number of credits you take. This entitles you to park in open parking spaces (not in spaces designated as "A" parking) in lots or garages. Parking permits for students with disabilities are available from Police and Safety (PP105). Validation from a physician or Services for Students with Disabilities (Walb 113, 481-6657) is required.

Traffic regulations. The operation of motor vehicles on the IPFW campus is governed by applicable state, local, and campus regulations. University police officers are empowered to enforce these statutes. Additional information is published in the *Student Handbook and Planner*, with complete information about IPFW parking and traffic regulations appearing in the Vehicle Regulations and Emergency Information brochure that is available from University Police and Safety and other campus locations.

10. Smoking

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Smoking is prohibited in any university facility and on any university grounds except in parking lots and designated smoking areas.

The purpose of this policy is to provide a healthy, comfortable, and productive environment for the campus community. Accordingly, all employees, students, and visitors are expected to comply.

11. Drug and Alcohol Abuse Prevention

Guidelines for the prevention of alcohol and substance abuse are included in the *Student Handbook and Planner*. Copies of the handbook are available at various campus locations.

12. Ethical Guidelines for Student Computer Users

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(Reprinted from IPFW Faculty Senate Document SD98-24a, revised Dec. 10, 2001)

The IPFW Code of Student Rights, Responsibilities, and Conduct (hereafter, the Code) sets forth general policies and procedures governing the use of university facilities by students. The purpose of these guidelines is to interpret these policies and procedures specifically for students using the university's computing facilities.

University computer resources are designed to be used in connection with legitimate, university-related purposes. The use of university computing resources to disseminate obscene, pornographic, or libelous materials; to threaten or harass others; or otherwise engage in activities forbidden by the Code is subject to disciplinary action as specified in the Code.

Intellectual Property Rights and Responsibilities. Central to an understanding of the rights and responsibilities of student computer users is the notion of intellectual property. In brief, this concept holds that materials stored in electronic form are the property of one or more rightful owners. Like any other property, electronically stored information, whether data or programs, can be stolen, altered or destroyed, misappropriated, or plagiarized. Such inappropriate activities violate the Code and are subject to disciplinary action as set forth in the Code.

Access Rights and Responsibilities. The use of lab, e-mail, Web, and other computing resources should be focused on facilitating individual or small-group interaction; other uses - for example, using computer resources to conduct a commercial enterprise or private business - constitute theft from the university subject to disciplinary action as specified in the Code. Similarly, the introduction of information that interferes with the access or information of others - for example, the introduction of programs of a type commonly called "viruses" or of nonacademic, network game simulations - is subject to disciplinary action. E-mail should not be used for junk mailings.

Junk-mail, including chain mail, wastes system resources and the time of those who receive it. Neither should e-mail be used to forge a message so as to have it appear to come from another user. All such inappropriate use of e-mail is subject to disciplinary action, including, but not limited to, loss of e-mail account.

Certain university-controlled computing resources are openly available to all students on a first-come, first-served basis; access to other resources is limited - often only by means of posted notices - to students in certain disciplines or specified courses; access to still other resources is carefully controlled by such means as user IDs and passwords.

Students are responsible for adhering to the spirit and the letter of these access controls. Violations of access rights can be interpreted under the Code as theft of university services whether or not those services have been separately billed. Students are also responsible for ensuring the confidentiality of access rights under their control. For example, release of a password, whether intentional or inadvertent, invites misuse by others and may be subject to disciplinary action.

General Rights and Responsibilities. Despite access controls imposed, system failures may occasionally make it possible for students inappropriately to read, use, copy, alter, or delete information stored electronically on a university computer system. Students are responsible for not exploiting such system failures and for reporting them to proper university personnel so that corrective steps can be taken.

The university strives to maintain a quiet, library-like environment in its computer labs so that lab users can use their time productively and with minimal distractions. Proper use of computer resources follows the same standards of common sense and courtesy that govern the use of other public facilities. Improper use violates those standards by infringing upon others' ability to fulfill their responsibilities.

All inappropriate uses of computing resources should be reported to proper authorities for possible disciplinary action.

Code of Student Rights, Responsibilities, and Conduct

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Part I. Student Rights and Responsibilities

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Preamble. IPFW regulations governing the actions of students are intended to enhance the values that must be maintained in the pursuit of IPFW's mission and goals. These values include freedom of inquiry, intellectual honesty, freedom for the open expression of ideas and opinions within limits that protect the rights of others, and respect for the views and the dignity of other persons. In exercising their rights, students must bear responsibility to act in accordance with local, state, and national laws and IPFW rules. No right should be construed as enabling students to infringe upon the individual rights of another member of the academic community.

A. Individual Rights and Responsibilities as Citizens

1. Students retain all of their citizenship rights when enrolled at IPFW.
2. Students who violate civil law may incur penalties prescribed by civil authorities. Only where IPFW's interests as an academic community are distinct from those of the general community should the special authority of IPFW be asserted.
3. Nondiscrimination - IPFW is committed to maintaining a community that recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the university seeks to develop and nurture diversity. The university believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life.

IPFW views, evaluates, and treats all persons in any university-related activity or circumstance in which they may be involved solely as individuals on the basis of their own personal abilities, qualifications, and other relevant characteristics.

IPFW prohibits discrimination against any member of the university community on the basis of race, religion, color, sex, age, national origin or ancestry, marital status, parental status, sexual orientation, disability, or

status as a disabled or Vietnam-era veteran. The university will conduct its programs, services, and activities consistent with applicable federal, state, and local laws, regulations, and orders and in conformance with the procedures and limitations as set forth in Purdue University's Executive Memorandum No. D-1, which provides specific contractual rights and remedies. Additionally, the university promotes the full realization of equal employment opportunity for women, minorities, persons with disabilities, and Vietnam-era veterans through its affirmative action program.

4. Antiharassment - It is the policy of IPFW to maintain the campus as a place of work and study for faculty, staff, and students free from all forms of harassment. In providing an educational and work climate that is positive and harassment-free, faculty, staff, and students should be aware that harassment in the workplace or the educational environment is unacceptable conduct and will not be tolerated. This policy addresses harassment in all forms, covering those with legally protected status for reasons of race, gender, religion, color, age, national origin or ancestry, or disability, as well as those who are harassed for other reasons such as sexual orientation.

B. Individual Rights and Responsibilities as Students

1. Degree-seeking students have the responsibility for selecting a major field of study, for choosing an appropriate degree program within the discipline, for planning class schedules, and for meeting the requirements for degrees. IPFW will provide advisors to assist students in academic planning, but students are responsible for being knowledgeable about all academic requirements that must be met before a degree is granted.
2. Students have the right to receive accurately and plainly stated information that enables them to understand clearly:
 - a. the general qualifications for establishing and maintaining acceptable academic standing within a particular major and at all other levels within IPFW,
 - b. the graduation requirements for specific curricula and majors, and
 - c. the course objectives, requirements, and grading policies set by individual instructors for their courses.
3. In the classroom, students have the freedom to raise relevant issues pertaining to classroom discussion, to offer reasonable doubts about data presented, and to express alternative opinions to those being discussed. However, in exercising this freedom, students shall not interfere with the academic process of the class.
4. Students' course grades shall be based upon academic performance, and not upon opinions or conduct in matters unrelated to academic standards. Students have the right to discuss and review their academic performance with their instructors. Students who feel that any course grade has been based upon criteria other than academic performance have the right to appeal through the IPFW grade appeals system.
5. Students have the right to obtain a clear statement of basic rights, obligations, and responsibilities concerning both academic and personal conduct.
6. Students have the right to participate in the formulation of IPFW policies that directly affect them. In exercising this right, students have the right to access appropriate information, to express their views, and to have their views considered.
7. Students have the privacy rights specified in the IPFW policy on the release of student information.

C. Rights and Responsibilities as Participants in Student Groups, Student Organizations, and Campus Activities

1. Students have the right to form, join, and participate in groups or organizations that promote the common interests of students, including but not limited to groups or organizations that are organized for academic, professional, religious, social, economic, political, recreational, or cultural purposes.
2. Any group of students may petition to become a recognized IPFW student organization in accordance with the established guidelines. Any appeal of a campus decision to discontinue or refuse recognition of a student group shall be made through the Campus Appeals Board.
3. Any student group recognized as an IPFW student organization shall be entitled to the use of available campus facilities in conformity with regulations. Recognition shall not imply IPFW endorsement of group goals and activities.
4. Any recognized IPFW student organization or any group of students able to secure sponsorship by a recognized student organization and to demonstrate financial responsibility has the right to present speakers of its choice to address members of the IPFW community using appropriate campus facilities. These assemblies shall be subject to regulations necessary to prevent space and time conflicts and to protect the operations of the campus and the safety of persons or property.

5. Freedom of assembly shall be guaranteed to all members of the IPFW community. Such assemblies shall be consistent with IPFW regulations regarding the time, place, and manner of such assemblies.
6. A student, student group, or student organization has the right to distribute written material on campus without prior approval providing such distribution is consistent with appropriate regulations concerning the time, place, and manner of distribution and does not interfere with IPFW activities.
7. Students who publish student publications under IPFW auspices have the right to be free of unlawful censorship. At the same time, students who publish such publications must observe the recognized canons of responsible journalism such as the Sigma Delta Chi Code of Ethics and avoid libel, obscenity, undocumented allegations, attacks on personal integrity, and the techniques of harassment and innuendo. Editors and managers of *The Communicator* may not be arbitrarily suspended or removed from their positions because of student, faculty, administrative, or public disapproval of their editorial policies or publications. Student editors and managers may be suspended or removed from their positions only for proper cause and by appropriate proceedings conducted by the board of directors. All student publications shall explicitly state on the editorial page that the opinions expressed are not necessarily those of IPFW or of the student body.

D. Summary of Rights and Responsibilities

1. This statement of Student Rights and Responsibilities is a reaffirmation by the entire IPFW community that the constitutional guarantees and the basic principles of fair treatment and respect for the integrity, judgment, and contribution of the individual student, coinciding with each student's freedom to learn set forth in the foregoing articles, are essential to the proper operation of an institution of higher learning. Accordingly, in the interpretation and enforcement of the policies, rules, and regulations of IPFW, these student rights shall be preserved and given effect, but they shall not be construed or applied so as to limit the rights guaranteed students under the Constitution of the United States or the Constitution of the State of Indiana.

Whenever a student or a group of students claims that these rights have been violated and that the student or group of students has been or will be adversely affected thereby, and such complaint is not resolved informally by the interested parties, it may be presented to an appropriate body of the campus appeals system. Through this system, an appropriate individual, board, or committee shall have the power and duty to hear the interested parties and to make findings on complaints within its jurisdiction. In case of grade appeals, the individuals and committees designated in the IPFW grade appeals system shall have final authority. In all other cases, the Campus Appeals Board shall submit recommendations to the chief administrative officer of IPFW after such claims related to alleged misconduct, for which disciplinary proceedings have been instituted, have been presented to said board and findings determined in an appropriate hearing. If necessary, the chief administrative officer of IPFW may present such recommendations to the university president and board of trustees for their consideration.

2. The enumeration of these rights and responsibilities shall not be construed to deny or disparage others retained by the student. Nothing contained in this bill shall be construed as any denial or limitation upon the legal authority or responsibility of the board of trustees to establish policies and to make rules and regulations governing the operation of IPFW.

E. Amendment of Rights and Responsibilities

Proposed amendments of these rights and responsibilities may be initiated by the Indiana-Purdue Student Government Association (IPSGA), Fort Wayne Senate, administrative officials, or the board of trustees and shall be submitted to the IPSGA, Fort Wayne Senate, and Community Advisory Council for consideration and recommendation before adoption by the board of trustees. In the event the board of trustees adopts an amendment not approved by IPSGA and Fort Wayne Senate, either the IPSGA or Fort Wayne Senate may withdraw its endorsement of the rights and responsibilities in whole or in part.

F. Definitions

1. An IPFW activity is any teaching, research, service, administrative, or other function, proceeding, ceremony, program, or activity conducted by or under the authority of IPFW, or with which IPFW has any official connection, whether taking place on or off campus. Included within this definition without limitation are IPFW cooperative-education programs, internships, practicums, field experiences, and athletic or other intercollegiate activities.
2. IPFW property means property owned, controlled, used, or occupied by IPFW.

Part II. Student Rights and Responsibilities

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Preamble. Students are expected and required to abide by the laws of the United States, the laws of the State of Indiana, and the rules and regulations of IPFW. Students are expected to exercise their freedom to learn with responsibility and to respect the general conditions that maintain such freedom. IPFW has developed the following general regulations concerning student conduct that safeguard the right of every student to exercise fully the freedom to learn without interference.

IPFW may discipline a student for academic or personal misconduct for the following actions:

A. Academic Misconduct

1. Cheating-intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise. The term "academic exercise" includes all forms of work submitted for credit or hours.
2. Fabrication-intentional and unauthorized falsification or invention of any information or citation in an academic exercise.
3. Facilitating academic dishonesty- intentionally or knowingly helping or attempting to help another in committing dishonest acts.
4. Plagiarism-the adoption or reproduction of ideas or statements of another person as one's own without acknowledgment.

B. Personal Misconduct

IPFW may discipline a student for the following acts of personal misconduct that occur on campus property or in connection with an IPFW activity:

1. Dishonest conduct, including but not limited to false accusation of misconduct; forgery, alteration, or misuse of any IPFW document, record or identification; and giving to an IPFW official information known to be false.
2. Release of access codes for IPFW computer systems to unauthorized persons; use of an access code for a purpose other than that stated on the request for service.
3. Lewd or indecent conduct, obscene conduct, or obscene expression as defined by law.
4. Disorderly or disruptive conduct that interferes with teaching, research, administration, or other IPFW or IPFW-authorized activity.
5. Failure to comply with the directions of authorized IPFW officials in the performance of their duties, including failure to identify oneself when requested to do so, and violation of the terms of a disciplinary action.
6. Unauthorized entry, use, or occupancy of campus facilities; refusal to vacate a campus facility when directed to do so by an authorized official of IPFW.
7. Unauthorized taking or possession of IPFW property or services; unauthorized taking or possession of the property or services of others.
8. Intentional action or reckless disregard that results in damage to or destruction of IPFW property or of property belonging to others.
9. Possession of firearms or other weapons; possession or display of any firearm except as authorized by the IPFW police; and intentional possession of a dangerous article or substance as a potential weapon, or of any article or explosive calculated to injure or discomfort any person. Public law enforcement officials who are required by their departments to carry their firearms at all times must register with the IPFW police.
10. Acting with violence; and aiding, encouraging, or participating in a riot.
11. Harassment, as defined by the IPFW Antiharassment Policy.
12. Hazing, defined as any conduct that subjects another person, whether physically, mentally, emotionally, or psychologically, to anything that may endanger, abuse, degrade, or intimidate the person as a condition of association with a group or organization, regardless of the person's consent or lack of consent.
13. Physical abuse of any person or conduct that threatens or endangers the health or safety of another person.
14. Verbal behavior that involves an expressed or implied threat to interfere unlawfully with an individual's personal safety; personally abusive language ("fighting words") inherently likely to provoke a violent reaction in a face-to-face situation.
15. Possession, consumption, distribution, or sale of alcoholic beverages as defined by state law, on campus except as expressly permitted by the Internal Operating Procedures for the Possession, Consumption, Distribution, and Sale of Alcoholic Beverages on the Fort Wayne Campus.

16. Use, possession, manufacture, processing, distribution, or sale of any drug or controlled substance except as expressly permitted by law. The term "controlled substance" is defined in Indiana and includes, but is not limited to, substances such as marijuana, cocaine, narcotics, certain stimulants and depressants, and hallucinogens.
17. Violations of other published IPFW regulations, policies, or rules.
18. Violation of any IPFW rule governing student organizations or the use of IPFW property (including the time, place, and manner of meetings or demonstrations on IPFW property), or of any other IPFW rule that is reasonably related to the orderly operation of IPFW.
19. Obstruction or disruption of any IPFW activity or inciting, aiding, or encouraging other persons to engage in such conduct. Obstruction or disruption means any unlawful or objectionable acts or conduct: (1) that seriously threaten the ability of IPFW to maintain its facilities available for performance of its educational activities, (2) that are in violation of the reasonable rules and standards of IPFW designed to protect the academic community from unlawful conduct, or (3) that present a serious threat to person or property of the academic community. Such phrase shall include, without limitation of the foregoing general definition, the unlawful use of force or violence on or within any buildings or grounds owned, used, occupied, or controlled by IPFW; using or occupying any such buildings or grounds in violation of lawful rules or regulations of IPFW or for the purpose or with the effect of denying or interfering with the lawful use thereof by others; and injuring or harming any person or damaging or destroying the property of IPFW or the property of others within such buildings and grounds.

C. Other Student Conduct Issues

1. Demonstrations - Any individual or group activity or conduct apparently intended to call attention to the participants' point of view on some issues is not of itself misconduct. Demonstrations that do not involve conduct beyond the scope of constitutionally protected rights of free speech and assembly are, of course, permissible. However, conduct that is otherwise improper cannot be justified merely because it occurs in the context of a demonstration. Demonstrations that involve violations of any subsection of Part II-A or -B will not be permitted. A student will be charged with misconduct for any individual misconduct committed by the student in the course of a demonstration.
2. Misconduct Subject to Other Penalties - As provided in Chapter 273 of the 1969 Acts of the Indiana General Assembly, misconduct that constitutes a violation of these rules and regulations may be punished after determination of guilt by the procedures herein provided without regard to whether such misconduct also constitutes an offense under the criminal laws of any state or of the United States or whether such conduct might result in civil liability of the violator to other persons.
3. Personal Conduct Not on IPFW Property - IPFW may discipline a student for acts of personal misconduct that are not committed on campus property or in connection with an IPFW activity if the acts distinctly and adversely affect the security of the campus community or the integrity of the educational process.
4. Status During Disciplinary Proceedings - Except where summary action is taken as provided in Part III-C, the status of a student charged with misconduct shall not be affected, pending the final disposition of charges. The effective date of any disciplinary penalty shall be a date established by the final adjudicating body (dean of students or the Campus Appeals Board). In case of suspension or expulsion, the student shall not be withdrawn any earlier than the date the notice of charges originated or later than the effective date established by the final adjudicating body.

Part III. Student Rights and Responsibilities

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Preamble. IPFW procedures for imposing academic and disciplinary sanctions are designed to provide students with the guarantees of due process and procedural fairness. Except as provided in Part IV, the procedures hereby established shall be followed in all cases in which IPFW institutes disciplinary proceedings against students for violations of rules of student conduct set forth in Part II.

A. Disciplinary Procedures for Academic Misconduct

1. When a student commits an act of academic misconduct that is not related to a course in which the student is enrolled, the dean of students has the authority to initiate academic misconduct proceedings against the student after consulting with the dean or director of the school or division in which the student is enrolled.

The proceedings are governed by the same procedures that apply to acts of personal misconduct (Part III-B-1).

2. When a student in a course commits an act of academic misconduct related to that particular course, the instructor who is teaching the course has the authority to initiate academic misconduct proceedings against the student in accordance with the established procedures (Part III-A-2a).
 - a. An instructor who has information that a student enrolled in a course being conducted by the instructor has committed an act of academic misconduct related to that course is required to hold an informal conference with the student concerning the matter within 10 class days of discovering the alleged misconduct. The faculty member must advise the student of the alleged act of misconduct and the information upon which the allegation is based.
 - b. If the instructor concludes that the student did commit the act of misconduct as alleged, the instructor is authorized to impose an appropriate academic sanction related to the particular course involved. An appropriate academic sanction for such misconduct may include, but is not limited to, any of the following:
 1. The student may be given a lower grade than the student would otherwise have received or a failing grade for any assignment, course work, examination, or paper involved in the act of misconduct.
 2. The student may be required to repeat the assignment, complete some additional assignment, or resubmit any assignment, course work, examination, or paper involved in the act of misconduct.
 3. The student may be given a lower grade than the student would otherwise have received or a failing grade for the course.
 - c. After imposing an academic sanction, the instructor is required to report the matter and action taken within 10 class days in writing to the student, the chair of the student's department, the dean or director of the student's school or division, and the dean of students.
 - d. If the student's course grade is affected by the sanction, the student has the right to appeal the academic sanction imposed by an instructor through the IPFW grade appeals system.
 - e. A student may not be placed on disciplinary probation or suspended or expelled from IPFW or a school or division within IPFW because of an act of academic misconduct unless the dean of students concludes that such a sanction is justified by the nature of the act or because the student has committed previous acts of misconduct.
 - f. If the dean of students concludes that additional disciplinary action is warranted, the proceedings will be governed by the same procedures that apply to acts of personal misconduct.

B. Disciplinary Procedures for Personal Misconduct

Any member of the IPFW community may initiate a complaint with the dean of students. Disciplinary proceedings are those proceedings initiated by the issuance of a notice of charges and are governed by the following procedures.

Disciplinary proceedings for an act of personal misconduct that is committed simultaneously with an act of academic misconduct are also governed by the following procedures unless the dean of students and the faculty member involved agree otherwise.

1. Notice of Charges

- a. A disciplinary proceeding is initiated by the dean of students by sending a notice to the student who is the subject of the complaint. If disciplinary proceedings are initiated against a student under the age of 18, the dean is required to make reasonable efforts to assure that the parent(s) or, when appropriate, the legal guardian of the student is notified concerning the proceedings and the nature of the complaint.
- b. The notice shall be sent by certified mail to the student's address as it appears in the official records of IPFW or shall be delivered personally to the student. The notice shall quote the rule claimed to have been violated and shall fairly inform the student of the reported circumstances of the alleged misconduct. The notice shall require the student to appear in the office of the dean of students at a time and on a date specified (which ordinarily will not be earlier than three class days after the mailing of the notice) to discuss the alleged violations. A copy of these regulations shall accompany each notice of charges.
- c. The notice shall inform the student of the following:

1. The offense the student is alleged to have committed by citing the relevant section of these regulations;
2. The date, time, and place of the alleged offense, and other relevant circumstances;
3. The date, time, and place of the informal hearing to discuss the alleged violation;
4. That the student may have an advisor or other counsel present during the hearing; that an advisor or counsel is limited to the role of advising the student; and that an advisor or counsel may not participate in presenting the case, questioning the witnesses, or making statements during the hearing;
5. That the student need not answer questions and that a choice to remain silent will not be taken as an admission of guilt, nor shall it be detrimental to the student's position;
6. That, if the student fails to appear for the hearing, the dean of students may (a) reschedule the conference; (b) dismiss the charges; or (c) if the dean of students reasonably believes the failure to appear to be inexcusable, impose any of the prescribed disciplinary penalties.

2. **Informal Hearing**

- a. When the student appears as required, the dean of students shall inform the student as fully as possible of the facts concerning the alleged misconduct and of the procedures that follow. The student may, but need not, make responses and explanations.
- b. If, after discussion and such further investigation as may be necessary, the dean of students determines that the violation alleged is not supported by the evidence, the dean of students shall dismiss the accusation and notify the student.
- c. If, after discussion, or if the student fails to appear, and if the dean of students believes that the violation occurred as alleged, the dean of students shall so notify the student and shall propose a disciplinary sanction by means of a written notice. The student, by such notice, shall be offered the choice of either consenting to the determination and proposed penalty or of requesting a hearing before the Campus Appeals Board. Should a student desire a hearing before the appeals board, the request shall be made in writing and delivered to the office of the dean of students no later than seven class days after the mailing of the notice.
- d. If no written choice is received by the dean of students within the time specified, no further hearing shall be held, the disciplinary sanction proposed by the dean of students shall be imposed, and the action shall be considered final.
- e. Both the student and the student's accuser shall be informed of the outcome of any hearing brought alleging a sexual assault.

3. **Disciplinary Sanctions**

The dean of students is authorized to impose any one or a combination of the following sanctions for acts of personal misconduct:

- a. **Reprimand and Warning.** A student may be given a reprimand accompanied by a written warning that the student may receive additional sanctions if the student engages in the same misconduct again or commits any other violation of this code.
- b. **Disciplinary Probation.** A student may be placed on disciplinary probation for a specified period under conditions specified in writing by the dean of students, with a warning that any violation of the conditions or any further acts of misconduct may result in additional disciplinary sanctions, including suspension or expulsion from IPFW. As a condition of probation, the student may be required to participate in a specific program, such as an alcohol-education program, or to provide a specific service, such as the repair or restoration of any property damaged or taken by the student.
- c. **Restitution.** A student may be required to pay the cost for the replacement or repair of any property damaged by the student. If the student fails to pay the cost or make the repairs, the student may be subjected to additional sanctions, including suspension or expulsion.
- d. **Participation in a Specific Program.** A student may be required to participate in a specific program, such as an alcohol-education program. If the student fails to participate in the program as directed, the student may be subjected to additional sanctions, including suspension or expulsion.
- e. **Provision of a Specific Service.** A student may be required to provide a specific service, such as the repair or restoration of any property damaged or taken by the student. If the student fails to provide

the service as directed, the student may be subjected to additional sanctions, including suspension or expulsion.

- f. Suspension. A student may be suspended from classes and future enrollment and excluded from participation in all aspects of campus life for a specified period of time.
- g. Expulsion. A student may be dismissed from IPFW. The student may, after two years, petition for readmission to IPFW.

4. **Campus Appeals Board**

- a. Composition. The Campus Appeals Board shall consist of nine members selected in the following manner: four students appointed by the president of Indiana-Purdue Student Government Association subject to confirmation by the Student Senate; three faculty members elected by the Fort Wayne Senate; and two administrative staff members appointed by the chancellor, one of whom shall be designated as chair of the Campus Appeals Board. An equal number of alternates from each constituent group shall be appointed at the same time and in the same manner as the regular members. From such panels of members and alternates, the chair shall designate a hearing panel consisting of a minimum of five members including at least two students.
- b. Terms of Office. The term of office for student members and their alternates shall be one year, and for the faculty and administrative members, it shall be two years, except that members shall continue to have jurisdiction of any case under consideration at the expiration of their term. The terms of office for all members shall begin at the start of the fall semester. No member shall serve more than two consecutive terms. If any appointing authority fails to make the initial appointments to the Campus Appeals Board within the time specified, or to fill any vacancy on the panel of alternates within five days after being notified to do so by the chief administrative officer, or if at any time the Campus Appeals Board cannot function because of the refusal of any member or members to serve, the chancellor may make appointments, fill vacancies, or take such other action as deemed necessary to constitute a Campus Appeals Board.
- c. Hearings
 - 1. The Campus Appeals Board may hear the following types of appeals from students: appeals of disciplinary findings and sanctions imposed by the dean of students, including findings and sanctions concerning student organizations; appeals of Student Judicial Court rulings; and appeals of faculty/staff decisions claimed to violate established student rights. Students who wish to request a hearing before the Campus Appeals Board shall submit a written request to the dean of students. The dean of students shall contact the chair of the Board, who will make arrangements for the hearing by phone or e-mail. The student and all other parties shall be notified of the arrangements for the hearing.
 - 2. In all cases where an appeal is heard, the chair shall inform the parties to the appeal, in writing, of the following:
 - a. The violation alleged to have been committed, by citing the relevant section of these regulations;
 - b. The date, time, and place of the alleged violation, and other relevant circumstances of the complaint, including a summary of the evidence upon which the charges are based;
 - c. The date, time, and place of the hearing, which shall not be earlier than 10 class days after the date of the notice except by agreement of parties to the complaint;
 - d. That the parties must prepare a list of the persons that may be presented as witnesses and/or whose statements may be offered as evidence at the hearing for distribution to the parties and submit that list to the chair no later than five class days before the hearing, excluding Saturdays, Sundays, and holidays;
 - e. That the student is required to be present at the hearing and is entitled to present witnesses and to cross-examine witnesses who appear unless the Campus Appeals Board decides to proceed in the absence of the student because of extraordinary circumstances such as a student's refusal or inability to attend;

- f. That the student is entitled to be represented at the hearing by counsel or an advisor of his or her choice at his or her own expense, but that the student is still required to be present even if represented by counsel or an advisor; and that an advisor or counsel may not participate in presenting the case, questioning witnesses, or making statements during the hearings;
- g. That IPFW may be represented by legal counsel if it so elects, whose sole function shall be to advise the Appeals Board; and that counsel may not participate in presenting the case, questioning witnesses, making statements during the hearing, or be involved in the Board's determination of the appeal;
- h. That the hearing will be closed to the public, unless both parties to the appeal request an open hearing. The chair of the Campus Appeals Board shall make arrangements satisfactory to the Campus Appeals Board to accommodate observers if a hearing is to be public, and the Campus Appeals Board's choice of the place and determination of the number of observers that can be conveniently accommodated are final;
- i. (That failure to appear at the hearing will be action for which the student forfeits the right of appeal if the Campus Appeals Board, upon diligent inquiry, finds such failure to be inexcusable;
- j. That the decision of the Campus Appeals Board shall be based solely upon matters introduced at the hearing and must be based upon preponderance of evidence;
- k. That within 10 class days after the conclusion of the hearing, the chair of the Campus Appeals Board shall render a written decision and include a brief explanation of the decision and set forth the findings of fact upon which the decision is made. The chair shall promptly furnish copies of the decision to the student and to others with a need to know as determined by the Board. In the case of appeals concerning disciplinary findings and sanctions for alleged sexual assaults, both the appealing student and the student's accuser shall be informed of the outcome of the appeals proceedings.

Additional information to be provided in writing to the parties to the appeal is dependent upon the type of appeal to be heard.

- 3. Students who are appealing a dean of students' disciplinary finding and sanction shall additionally be informed:
 - a. That the student need not answer questions during the hearing, and that a choice to remain silent will not be taken as an admission of guilt, nor shall it be detrimental to the student's position;
 - b. Of the sanctions that may be imposed by the Campus Appeals Board;
 - c. That the Campus Appeals Board shall make a finding whether the student has committed the violation(s) as charged and shall either reverse the decision of the dean of students and acquit the student, affirm the finding of the dean of students and the disciplinary sanction imposed, or affirm the finding of the dean of students but in cases where a proposed disciplinary sanction is believed to be inappropriate to the misconduct, reduce or increase the severity of the sanction;
 - d. That the decision of the Campus Appeals Board is final and not subject to further appeal.
- 4. Students who are appealing a dean of students finding and sanction against a student organization shall additionally be informed:
 - a. That the Campus Appeals Board shall have jurisdiction to hear and shall be required to hear any appeal from a student organization which the dean of students has refused to recognize, has suspended for a period of time, or from which recognition has been withdrawn. In such cases, the Campus Appeals Board shall have the authority to reverse the finding of the dean and restore the

student organization to its original status, or to affirm the finding and penalty imposed by the dean, or to reduce or increase the severity of the disciplinary penalty. The action of the Campus Appeals Board shall be final.

5. Students who are appealing Student Judicial Court rulings shall additionally be informed:
 - a. That the Campus Appeals Board shall have discretionary jurisdiction to hear appeals from the student government association. In such cases, it may affirm or reverse a decision, and its action shall be final.
6. Students who are appealing faculty/staff actions or decisions claimed to violate rights established under Part I of the Code, the Americans with Disabilities Act, Ethical Guidelines for Computer Users, or HIV/AIDS Guidelines shall additionally be informed:
 - a. That the Campus Appeals Board shall have the authority to convey recommendations to the chancellor of IPFW, whose decision is final.
- d. Appeals from Student Judicial Court. The Campus Appeals Board shall have discretionary jurisdiction to hear appeals from the student government association. In such cases, it may affirm or reverse a decision, and its action shall be final.

C. Summary Action

Summary disciplinary action by way of temporary suspension and exclusion from IPFW property may be taken against a student charged with misconduct without the issuance of a notice of charges and without the procedures prescribed in Part III-B on the following conditions: (1) Summary action shall be taken only by the chancellor or the chancellor's designee, and only after the student shall have been given an opportunity to be heard if such procedure is practical and feasible under the circumstances; (2) Summary action shall be taken only if the chancellor or the chancellor's designee is satisfied that the continued presence of the student on IPFW property threatens harm to the student or to any other persons or to the property of IPFW or of others. Whenever summary action is taken under this provision, the procedures provided for in Part III-B for hearing and appeal shall be expedited so far as possible in order to shorten the period of summary action.

D. Time Limitations

Time limitations specified in the preceding sections of this code may be extended by either the dean of students or the Campus Appeals Board for a reasonable period if an extension is justified by good cause under the totality of the circumstances. The documentation for extending the time limitations must be provided to the student.

Part IV. Student Rights and Responsibilities

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Preamble. Incidents of alleged student misconduct normally will be adjudicated in accordance with the provisions of the preceding regulations. If, however, the available evidence indicates that the student may be suffering from a mental disorder (as defined by the current edition of the American Psychiatric Association Diagnostic and Statistical Manual), and if the student's behavior poses a significant danger of causing harm to self, other persons, or property, or substantially disrupts the normal activities of IPFW, the student may be asked to withdraw voluntarily or may be administratively withdrawn involuntarily from IPFW.

A. Review and Hearing Procedures

1. The dean of students shall determine in each individual case whether it shall be handled through this policy or through other student disciplinary procedures.
2. A student may be requested in writing and/or orally (depending upon the urgency of the situation) to attend an informal meeting with the dean of students and an IPFW counselor for the purpose of determining the seriousness of the student's condition and, if so, the necessity for withdrawal. Such a request will include a statement of the reasons for IPFW concern. Parents, spouses, or other appropriate persons (i.e., faculty, counselors, psychologists, etc.) may be contacted either by the student or by IPFW for information and may, with the consent of the student, participate in the informal meeting. At the meeting the reasons for IPFW's concern regarding the student will be clearly stated, and the student will be given an opportunity to respond to these concerns. If after the meeting the student is found not to have a serious mental disorder, the student will be so informed in writing and allowed to continue as a student.

3. If, after the informal meeting, the dean of students and the IPFW counselor decide that the student should withdraw from IPFW and be permitted to re-enter IPFW only with their approval, the student shall be informed of such decision and the reasons therefore. The student will receive a written notice of the decision and reasons within 10 class days after the informal hearing. If the student agrees to voluntarily withdraw from IPFW on such conditions, regular withdrawal procedures will be followed. However, the student may be permitted to withdraw voluntarily without grades if in the judgment of the dean of students and the IPFW counselor the circumstances warrant such action.
4. If the student refuses to accept the decision of withdrawal reached by the dean of students and the IPFW counselor and refuses to withdraw from IPFW voluntarily, the student shall notify the dean of students of such refusal. The student may then appeal the withdrawal decision to a committee appointed by the chief administrative officer of IPFW, consisting of a faculty member, a student, and an IPFW administrator, other than a member of the staff of the dean of students. The committee shall hear the entire matter again after notice to the student and the dean of students. The issues to be determined by the committee shall be: (1) whether the student has a serious mental disorder, and (2) if so, whether the student should be involuntarily withdrawn from IPFW. The student and the dean of students and the IPFW counselor may attend the hearing and present evidence and question witnesses. They may be represented by counsel. The committee may, at its discretion, authorize an independent evaluation of the student by a certified psychologist or licensed psychiatrist at IPFW's expense. The committee shall make a written report containing its findings and conclusions within 10 class days after the hearing. Copies of the report shall be furnished to the student, the dean of students, and the chief administrative officer of IPFW. The decision of the committee shall be binding upon the student and IPFW.

Part V. Student Rights and Responsibilities

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Students having complaints concerning actions or decisions that are claimed to violate rights established under Part I of the Code, the Americans with Disabilities Act, Ethical Guidelines for Computer Users, or HIV/AIDS Guidelines, must first seek to resolve their complaints at the lowest unit level. Good-faith efforts will ensure the timely handling of such complaints. Depending upon the nature of the complaints, appropriate faculty or administrators may be designated to investigate, mediate, and suggest a resolution. Only after all such remedies have been exhausted may the students request a hearing before the Campus Appeals Board. The Campus Appeals Board shall have the authority and duty to reach findings and to convey recommendations to the chief administrative officer of IPFW.

Part VI. Student Rights and Responsibilities

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A. Authority

As provided in the IPFW Management and Academic Mission Agreement, "Purdue University shall be responsible for all policies related to student matters. IPFW student rights, responsibilities, and standards of conduct will be established by campus administrators in consultation with the student and faculty government organizations and with the IPFW Community Advisory Council and shall be consistent with the principles established by Purdue and Indiana universities."

B. Application

These regulations, as from time to time amended, shall apply to all undergraduate and graduate students with either IU or Purdue affiliation while enrolled at IPFW and shall be deemed a part of the terms and conditions of admission and enrollment at IPFW. In case of any conflict or inconsistencies with any other rules, regulations, directives, or policies now existing, these regulations shall govern. They shall be enforced by the chancellor of IPFW.

C. Amendments

These regulations, and any amendments hereto, shall take effect on a date prescribed by the Trustees of Purdue University and shall remain in effect until rescinded or modified by them. Amendments may be proposed at any time by the Indiana-Purdue Student Government Association, Fort Wayne Senate, IPFW administrative staff, Community Advisory Council, or by the Trustees of Purdue University.

Colleges, Schools & Divisions

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 243 ~ 260-481-6839 ~ www.etc.ipfw.edu

The objective of the College of Engineering, Technology, and Computer Science (ETCS) is to be an increasingly valuable technological resource for its students, and to serve society as an integral component of a unique and comprehensive university with vigorous regional ties and a growing national reputation. Within the broader mission of the university, the college's goal is to prepare technicians, technologists, computer professionals, and engineers, and to provide its students with opportunities to develop fundamental skills, knowledge, and a professional attitude.

ETCS offers degree programs in computer science, engineering technologies, and engineering. Courses for these programs range from the study of fundamentals to practical, real-world, industrial methods.

Academic Programs

Full descriptions of the college's certificate and degree programs appear in alphabetical order in Part 4 of this *Bulletin*.

Associate of Science

Subject

Architectural Engineering Technology
Civil Engineering Technology
Computer Science
Electrical Engineering Technology
Industrial Engineering Technology
Information Systems
Interior Design
Mechanical Engineering Technology

Department

Civil and Architectural Engineering Technology
Civil and Architectural Engineering Technology
Computer Science
Electrical and Computer Engineering Technology
Mechanical and Industrial Engineering Technology
Computer Science
Civil and Architectural Engineering Technology
Mechanical and Industrial Engineering Technology

Bachelor of Science

Subject

Computer Engineering (B.S.Cp.E.)
Computer Engineering Technology (B.S.)
Computer Science (B.S.)
Construction Engineering Technology (B.S.)
Electrical Engineering Engineering (B.S.E.E.)
Electrical Engineering Technology (B.S.)
Industrial Engineering Technology (B.S.)
Information Systems (B.S.)
Interior Design (B.S.)
Mechanical Engineering Engineering (B.S.M.E.)
Mechanical Engineering Technology (B.S.)

Department

Engineering
Electrical and Computer Engineering Technology
Computer Science
Civil and Architectural Engineering Technology
Engineering
Electrical and Computer Engineering Technology
Mechanical and Industrial Engineering Technology
Computer Science
Civil and Architectural Engineering Technology
Engineering
Mechanical and Industrial Engineering Technology

Certificate

Subject

Advanced Microprocessors
Computer Controlled Systems
Computer Networking
Electronic Communications
Power Electronic Systems
Quality

Department

Electrical and Computer Engineering Technology
Electrical and Computer Engineering Technology
Electrical and Computer Engineering Technology
Electrical and Computer Engineering Technology
Electrical and Computer Engineering Technology
Mechanical and Industrial Engineering Technology

Minor

Subject

Computer Science
Electronics
Information Systems

Department

Computer Science
Electrical and Computer Engineering Technology
Computer Science

Transfer Program

Subject

Engineering

Department

Engineering

General Degree and Certificate Requirements

In addition to the academic regulations of IPFW (see Part 7), the following rules apply to students in the college. Where the college regulations are stricter than IPFW regulations, the college regulations apply.

Certificates and Associate Degrees

Requirements for certificates and Associate of Science degrees offered by the college are specified in the college's departmental listings.

Bachelor's Degrees

In addition to the requirements of IPFW (see Part 7) and those of your elected major, you must satisfy the following requirements of the College of Engineering, Technology, and Computer Science:

1. Earn a minimum of 124 credits.
2. Earn a graduation GPA of 2.00 or better in courses required for the major that are offered by the major department.
3. Satisfactorily complete ENG W131 or an equivalent English composition course with a grade of C or better.
4. Satisfactorily complete any additional degree requirements defined by individual departments based upon respective accrediting body criteria.

No credit toward graduation will be given for (a) courses or sequences considered to have overlapping content (see listings, School of Arts and Sciences) and (b) developmental courses such as CHM 100; EDUC X15x; ENG R15x, W11x, W130; and MA 109, 111, 113.

Graduation Survey

All ETCS students need to complete an online survey prior to graduation. Contact your department for more information.

Cooperative Education (Co-Op) and Related Programs

The college's departments offer many options for Cooperative Education experiences. Regular co-op positions, work-study internships, and practicum positions are available and many departments offer laboratory or teaching assistantships. You should check with your department for these opportunities.

Division of Continuing Studies

Kettler Hall 145 ~ 260-481-6828 ~ www.ipfw.edu/dcs

The mission of the Division of Continuing Studies is to provide high-quality lifelong learning opportunities for the residents of northeast Indiana.

Course work from this division is offered for academic credit, corporate training, and personal and professional development. For the convenience of students and employers, programs are organized on and off campus and include distance learning via Internet, television, and videotape/DVD.

The academic programs in the Division of Continuing Studies are listed below. Requirements for these programs appear in Part 4 of this *Bulletin*.

Subject

Program

General Studies
General Studies

Associate of Arts in General Studies (A.A.G.S.)
Bachelor of General Studies (B.G.S.)

Division of Labor Studies

Kettler Hall G28 ~ 260-481-6831

Through the Division of Labor Studies, Indiana University offers a Certificate in Labor Studies, a minor in labor studies, an Associate of Science in Labor Studies, and a Bachelor of Science in Labor Studies. Each combines work in a core of labor studies subjects with courses in other disciplines.

As a discipline, labor studies deals with work, the workplace, and workers and their organizations. It advances a body of knowledge that reflects the concerns of modern labor organizations.

As a program, labor studies enables participants to serve more effectively as members and leaders in their organizations. Participants can also gain a sense of the past and present contexts of work and unionism. Because union leaders need to be familiar with economics, communications, and other subjects, labor studies can assist them in mastering a broad range of learning.

The program encourages participants to make socially useful choices in carrying out the many responsibilities of union membership, union leadership, and community citizenship.

The Division of Labor Studies reports to IUPUI administration under the direction of Vice President for Long-Range Planning and IUPUI Chancellor Charles R. Bantz.

Each labor-studies program enhances the knowledge and skills of those active in organized labor. Completion of a program enhances your ability to apply knowledge and skills in unions, government agencies, or educational institutions.

Admission For admission to any of these programs, you must apply directly to the labor-studies office.

General Program Requirements Both of the following degrees and the certificate in labor studies require satisfactory completion of 15 credits from among the Labor Studies Core and additional credits from among three Required Areas of Learning (see listings below). Courses in which you earn a grade of D will count only as electives.

Division of Organizational Leadership and Supervision

Neff Hall 288 ~ 260-481-6420 ~ www.ipfw.edu/ols/

The mission of the Division of Organizational Leadership and Supervision (OLS) is to integrate theory and practical application in developing leaders for roles in the dynamic organizational environment of the 21st century. This goal is accomplished through an interdisciplinary curriculum that emphasizes an understanding of people, groups, and the global community within an organizational framework.

OLS combines the study of leadership with a career concentration. The program focuses on understanding and working with people within organizations and the practical application of leadership concepts and theories. Students' creativity and competence in the administration of human resource systems, team design and facilitation, and the influencing processes that define leadership are developed through this program.

The division offers the following academic programs, which are described in Part 4 of this *Bulletin*.

Subject

Organizational Leadership and Supervision
Supervisory Leadership

Program

A.S., B.S., and Minor
Certificate

Division of Public and Environmental Affairs

Neff Hall 260 ~ 260-481-6351 ~ www.ipfw.edu/spea/

The Division of Public and Environmental Affairs is a multidisciplinary division of the Indiana University School of Public and Environmental Affairs (SPEA). SPEA is organized as a professional school, committed to teaching, research, and service. SPEA at IPFW offers a Bachelor of Science program that provides a sound general education combined with specialized study. Additionally, SPEA offers minors in criminal justice and public affairs. SPEA's multidisciplinary faculty and curriculum address environmental, health, public policy, and management issues from a variety of perspectives.

The academic programs in the division are listed below. Requirements for these programs appear in Part 4 of this *Bulletin*.

Subject

Criminal Justice
Public Affairs
Public Affairs: Criminal Justice
Public Affairs: Environmental Policy
Public Affairs: Health Services Administration
Public Affairs: Legal Studies
Public Affairs: Public Management
Public Affairs: Specialized Study
Risk and Emergency Management

Program

Minor
Minor
B.S.P.A.
B.S.P.A.
B.S.P.A.
B.S.P.A.
B.S.P.A.
B.S.P.A.
Certificate

Admission

Admission to SPEA requires sophomore standing and a minimum cumulative grade-point average of 2.30, and completion of ENG W131, the required mathematics and computer science course(s), and the specific SPEA core course for the major. However, you may enter into the school as a pre-SPEA student as early as your freshman year. You must be in good academic standing (cumulative GPA of 2.00 or higher, core/concentration/major GPA of 2.30 or higher) to qualify for an internship and to graduate.

Special Academic Regulation for Students in Public and Environmental Affairs

Requirements for the undergraduate degree should be completed within 10 years of admission to SPEA. You may transfer no more than 88 credit hours (60 credits from a junior college) toward a Bachelor of Science. A maximum of 10 credits will be awarded on the basis of military training toward any degree from SPEA. With prior approval, you may take three courses totaling no more than 10 credit hours by correspondence through the IU Division of Extended Studies, Independent Study Program. However, you cannot satisfy a core, concentration, or major requirement by correspondence.

Good Standing in SPEA requires that you maintain a minimum semester and cumulative GPA of 2.00 and a minimum core/concentration GPA of 2.30. Therefore, you will be placed on academic probation if your semester, cumulative, or core/concentration GPA at the end of any regular semester is lower than these minimum standards. Once on probation, you may be dismissed from SPEA if you fail to make significant progress toward good standing or if you fail to meet the minimum IPFW standards listed in Part 7 of this Bulletin.

SPEA Internships

As a SPEA major, you may earn a maximum of 12 hours of elective credit during your junior and senior years through the SPEA internship program, if you are in good standing and have obtained prior SPEA faculty approval. Internships are strongly encouraged because they give you the opportunity to apply classroom theory and techniques to the real world and to network with professionals in your career field. The program is designed for maximum flexibility so that many valid learning experiences can qualify as internships. Internships can be full or part time, paid or unpaid, credit or noncredit. Interested students should contact their academic advisor at the SPEA office for further information about internships.

Special Opportunities for Students in Public and Environmental Affairs

The School of Public and Environmental Affairs offers opportunities to study in Washington, D.C., through the Washington Leadership Program, as well as opportunities to study abroad through programs in The Netherlands and Australia. You should contact the SPEA office for current information about these programs.

The Accelerated Master's Program (AMP) is a competitive program for outstanding undergraduate SPEA students. If you have a GPA of 3.50 or higher, you may apply to the Master of Public Affairs (M.P.A.) program early in your junior year. This program allows you to fulfill up to 24 credit hours toward the M.P.A. or 18 credit hours toward the M.P.M. by taking graduate-level SPEA courses during your senior year that count toward both your undergraduate and graduate degree programs.

Office of Academic Affairs

Richard T. Doermer School of Business and Management Sciences

Neff Hall 366 ~ 260-481-6472 ~ www.ipfw.edu/bms/

Note:

The Richard T. Doermer School of Business and Management Sciences is in the process of continual curriculum assessment and revision. Specific courses, programs, and degree requirements may change substantially during the life of a printed medium such as this *Bulletin*. You should consult your advisor about possible changes and opportunities.

General Information

The mission of the Richard T. Doermer School of Business and Management Sciences is to prepare students, primarily from northeast Indiana, for professional business careers of increasing responsibility and leadership in a global society.

To accomplish this mission, the role of the school's faculty, as a scholarly community, is

- to develop and deliver high-quality instruction
- to maintain a strong commitment to applied scholarship, with a secondary emphasis on instructional development and basic scholarship, all appearing in media of quality, and
- to share its scholarly expertise with the business community, the profession, and other constituents.

The mission reflects a continuing commitment to the importance of learning in a changing environment, supported through the interdependence of teaching, intellectual contributions, and service.

Academic Programs

The academic programs in the school are listed below. Requirements for these programs appear in Part 4 of this *Bulletin*.

<i>Subject</i>	<i>Program</i>
Accounting	Post-Baccalaureate Certificate
Business	Bachelor of Science (B.S.B.)
Business	Associate of Science (A.S.B.)
Business Studies	Minor

School of Arts and Sciences

Classroom-Medical Building 153 ~ 260-481-6160 ~ www.ipfw.edu/as/

The School of Arts and Sciences offers programs and courses in the traditional liberal arts disciplines. In addition to providing students with opportunities to develop skills required for the workplace or for advanced study, it seeks to foster well-rounded development of the individual. The school recognizes the role of nontraditional students at IPFW and makes special efforts to meet their needs.

Graduates of the school's baccalaureate programs should have knowledge and awareness enabling them to be effective citizens and lifelong learners. They are expected to have a working understanding of the knowledge and methodology appropriate for their discipline and should be aware of the major issues in their field and able to communicate field content effectively.

The school's Associate of Arts program with 10 concentration areas serves as an intermediate step toward completion of a baccalaureate degree. The chemical methods Associate of Science program, on the other hand, serves students who are preparing for a career as a chemical technician and is not recommended for students who wish to pursue a bachelor's program.

The service and research missions of the school are those appropriate to a comprehensive regional university. The school is responsible for basic-skills courses in mathematics and oral and written communication, as well as the majority of the courses fulfilling school and IPFW general-education requirements. Faculty engage in research or creative endeavor linked to their teaching as well as to IPFW's role as the regional center for higher education. Through research, faculty maintain their qualifications as teachers and, in their contribution to knowledge in their disciplines, enhance the reputation of the campus. Through research and service, the school seeks to make itself a vital resource for business, industry, public and private education, the arts, and government in northeast Indiana.

Academic Programs

The School of Arts and Sciences offers a broad range of minors, transfer programs, and interdisciplinary certificate programs. Each program with its sponsoring unit in the school is listed below for each degree. If you are undecided about a major within the school, you should, with the help of your advisor, choose courses carefully to assure reasonable progress as you narrow your choices and finally decide on a specific plan of study. If you change your major within the school, your degree requirements and your university affiliation may also change.

All bachelor's degrees require a major of at least 24 credits in courses specified by the major department. Minors include (a) a minimum of 12 credits with at least 8 credits at the 200 level or above; (b) at least half the credits taken as resident credits; and (c) a grade of C or better in each course.

Associate of Arts

An Associate of Arts (A.A.) is available with a choice of 10 concentrations. You can generally apply all credits earned in the A.A. program toward a bachelor's degree with a major in the A.A. concentration area.

Concentration

Biology
English
French
German
History
Mathematics
Political Science
Psychology
Spanish
Women's Studies

Department

Biology
English and Linguistics
International Language and Culture Studies
International Language and Culture Studies
History
Mathematical Sciences
Political Science
Psychology
International Language and Culture Studies
Women's Studies

Associate of Science

Concentration

Chemical Methods

Department

Chemistry

Bachelor of Arts

Major

Anthropology
Computer Science
Economics
English
French
Geology
German
History
Interpersonal and Organizational Communication

Department

Sociology and Anthropology
Mathematical Sciences
Arts and Sciences
English and Linguistics
International Language and Culture Studies
Geosciences
International Language and Culture Studies
History
Communication

Media and Public Communication
Philosophy
Political Science
Psychology
Sociology
Spanish
Women's Studies

Communication
Philosophy
Political Science
Psychology
Sociology and Anthropology
International Language and Culture Studies
Women's Studies

Bachelor of Science

Major

Biology
Biology Teaching Chemistry, B.S.
Chemistry, B.S.C.
Chemistry Teaching
Geology
Mathematics
Mathematics Teaching
Medical Technology
Physics
Physics Teaching
Speech and Hearing Therapy

Department

Biology
Biology
Chemistry
Chemistry
Geosciences
Mathematical Sciences
Mathematical Sciences
Biology
Physics
Physics
Audiology and Speech Sciences

Minors

Minor

Anthropology
Applied Ethics
Biology
Chemistry
Communication Studies
Creative Writing
Economics
English
Film and Media Studies
Folklore
French
Geology
German
History
Journalism
Linguistics
Mathematics
Media Production
Philosophy
Physics

Department

Sociology and Anthropology
Philosophy
Biology
Chemistry
Communication
English and Linguistics
Arts and Sciences
English and Linguistics
Arts and Sciences
English and Linguistics
International Language and Culture Studies
Geosciences
International Language and Culture Studies
History
Arts and Sciences
English and Linguistics
Mathematical Sciences
Communication
Philosophy
Physics

Political Science
Professional Writing
Psychology
Public Relations
Religious Studies
Sociology
Spanish
Women's Studies

Political Science
English and Linguistics
Psychology
Arts and Sciences
Philosophy
Sociology and Anthropology
International Language and Culture Studies
Women's Studies

Certificates

Subject

American Studies
Ethnic and Cultural Studies
Gerontology
International Studies
Native American Studies
Peace and Conflict Studies
Teaching English as a New Language
Women's Studies

Department

Arts and Sciences
Arts and Sciences
Arts and Sciences
Arts and Sciences
Arts and Sciences
Arts and Sciences
English and Linguistics
Arts and Sciences

Research Certificates

Anthropology
Biology
Chemistry
Mathematical Sciences
Physics
Psychology

Arts and Sciences
Arts and Sciences
Arts and Sciences
Arts and Sciences
Arts and Sciences
Arts and Sciences

Transfer Programs

The school's transfer programs in agriculture, journalism, forestry and natural resources, prepharmacy, and preveterinary studies are described in Part 4 of the Bulletin. You may also complete at IPFW one or two years of work toward many bachelor's degrees offered by the College of Arts and Sciences at Indiana University Bloomington and by the School of Liberal Arts and the School of Science at Purdue University West Lafayette. If you are planning to complete your degree at another campus, make this interest known the first time you see your IPFW academic advisor.

Preprofessional Programs

The school provides academic advising and programs for students who wish to prepare to compete for admission to professional schools at one of the public universities in the state or at other institutions. In the list below, the years refer to full-time study, 30 to 32 credits per academic year:

Program

Years

University

Predentistry*	3–4	Indiana
Pre-law	4	Indiana
Premedicine*	3–4	Indiana
<i>Program</i>	<i>Years</i>	<i>University</i>
Pre-optometry*	3–4	Indiana
Prepharmacy 2	2	Purdue
Preveterinary Medicine	2	Purdue

*Although some schools offer early admission to highly qualified students who have completed 90 credits, most applicants have completed a bachelor's degree. If you think you may qualify for early admission, you should consult your advisor about completing requirements for the bachelor's degree from the School of Arts and Sciences during the first year of professional school.

Academic advising for prepharmacy students is provided in the school office; for predental, premedical, pre-optometry, and preveterinary students in the Department of Biology; and for prelaw students in the Department of Political Science. If you are not majoring in the department that provides this advising, you should consult the appropriate preprofessional advisor before you see your department advisor to select your courses.

The Science and Engineering Research Semester (SERS)

Students majoring in natural sciences, mathematics, or computer science are encouraged to consider participating in the Science and Engineering Research Semester sponsored by the U.S. Department of Energy. If you are admitted to the program, you spend a fall or spring semester at one of six national laboratories conducting research under the mentorship of a staff scientist or engineer. The laboratories include Argonne in Illinois, Brookhaven in New York, Lawrence Berkeley in California, Los Alamos in New Mexico, Oak Ridge in Tennessee, and Pacific Northwest in Washington state. In addition to being directly involved in research, you also may enroll in one academic course during this semester. Credit for research and course work is determined in consultation with your academic advisor, the department chair, and the SERS campus advisor. Students accepted into the program receive a stipend, housing, and limited travel reimbursement. Inquiries should be initiated at least seven months prior to the anticipated starting date. You should begin planning in your freshman year to reserve time for this opportunity. Eligibility requirements include U.S. citizenship or permanent resident alien status, completion of the sophomore year, and a GPA of 3.00 or higher. For further information, contact the School of Arts and Sciences or the College of Engineering, Technology and Computer Science.

Cooperative Education (Co-Op) Program

Cooperative education provides an opportunity for you to work in an occupation related to your major. In this program, you may alternate between full-time study and full-time employment. Students normally enter the program at the end of their first year or upon completion of the summer session immediately following the first year. Check with your advisor regarding department requirements for eligibility for this program.

Research Certificate

The research certificate provides opportunities for you to engage in active learning opportunities integrating original research and the undergraduate curricula by learning research methods and tools appropriate to your discipline and your research interests within the discipline; by learning the foundations of research in the history, philosophy, and theory of the discipline; by learning advanced communications skills; and by applying these learnings by designing and executing a research study or project and communicating the results to others.

Degree Requirements and Academic Regulations for Students in the School of Arts and Sciences

In addition to the academic regulations of IPFW (see Part 7), the following rules apply to you. Where school regulations are stricter than IPFW regulations, the school regulations apply.

For each of the concentrations for the Associate of Arts, the requirements encompass approximately the first half of the bachelor's degree program offered by the sponsoring department. See Part 4 for complete requirements for related bachelor's degrees.

Requirements for the Associate of Arts

Credits in IPFW General Education Area I:(9)

- *COM 114 Fundamentals of Speech Communication*
- *ENG W131 Elementary Composition I (or equivalent), with a grade of C or higher*
- Quantitative Reasoning course (except MA 101), with a grade of C or higher
- Credits in IPFW General Education Area II, including one science course with a scheduled laboratory Credits: 6
- Credits in IPFW General Education Area III Credits: 6
- Credits in IPFW General Education Area IV Credits: 6
- Credits in the first year of a foreign language Credits: 8
- Credits in a concentration with a grade of C or higher in each course (see below) Credits: 15–21
- Additional credits in approved elective courses Credits: 4–12

Total with a graduation GPA of at least 2.00 (60–63)

Requirements for Associate of Science

Requirements for the Associate of Science in chemical methods appear in Part 4 of this Bulletin.

Requirements for Bachelor of Arts

In addition to Areas I through VI of the IPFW General Education program and the requirements for your major, you must satisfy the following school requirements:

1. Parts A through D listed below
2. At least 30 credits in upper-level courses as defined by the departments offering the courses (excluding military science courses).
3. A grade of C or better for all courses counted in the major. At most, one approved course in the major discipline may also count toward IPFW General Education Area II–V requirements. No course in the major discipline may count in Area VI.
4. The IPFW General Education Area I computer literacy requirement for the School of Arts and Sciences is met by completing COM 114, ENG W131, and one additional course selected from the following: CS 106, CS 107, CS 160, MA 149, MA 151, MA 153, MA 154, MA 163, MA 164, MA 165, MA 166, MA 168, MA 229, MA 230, STAT 125, or an approved departmentally specified course, or completion of STEPS (or successor program).
5. A sufficient number of elective credits to bring the total for graduation to 124.

Part A: English Writing

You must complete ENG W233 or an equivalent second writing course approved for this purpose by the school. Approved equivalents are ENG L202, FREN W300, GER W300, HIST H217, POLS Y205, SOC S260, and SPAN W300. You must complete both ENG W131 (or equivalent) and your second writing course with a grade of C or better.

Part B: Foreign Language

You must complete the last two courses in one of the sequences listed below (or demonstrate equivalent proficiency). Courses are offered in French, German, and Spanish. You are urged to begin studying a language as soon as possible. For advanced placement and special credit in foreign language, see the additional information for the bachelor's degree.

- FREN F111–F112–F203–F204
- GER G111–G112–G203–G204
- SPAN S111–S112–S203–S204

Part C: Distribution

In addition to the courses used to satisfy part A and B above, you must complete 3 credits in each of the following areas. No credits in your major discipline or in directed study courses may be used to satisfy this requirement.

1. Science and Mathematics. You must complete at least one science course with a scheduled laboratory, and you must also complete with a grade of C or better one mathematics course at the MA 153 level or above, or any other course in the Quantitative Reasoning section of the IPFW General Education requirements except MA 101. If the science and mathematics courses you completed for the IPFW General Education requirements satisfy this requirement, you may select the remaining required course from any of the following disciplines:

Agriculture (FNR 103 only)
Anthropology (ANTH B200 only)
Astronomy
Biology (excluding BIOL 105)
Chemistry
Entomology
Geography (physical geography only)
Geology
Mathematics (excluding MA 101, 102, and 103)
Physics
Political Science (POLS Y395 only)
Sociology (SOC S351 only)
Statistics

2. Social and Behavioral Sciences. Courses from the following disciplines satisfy this requirement:

Anthropology (excluding ANTH B200)
Audiology and Speech Sciences
Communication (excluding COM 114, 210, 240, 312, and 316)
Economics
English (ENG G205, G206, and G301 only)
Geography (human, cultural, or social geography only)
Gerontology (GERN G231 only)
International Studies (INTL I200 only)

Journalism (JOUR C200, C300, and J300 only)
Linguistics
Political Science (excluding POLS Y395)
Psychology
Sociology (excluding SOC S351)
Spanish* (SPAN S425, S426, and S428 only)
Women's studies (WOST W210 and W240 only)

3. Humanities. Courses from the following disciplines satisfy this requirement:

Afro-American studies
American studies
Architectural Engineering Technology (ARET 210 and 310 only)
Chinese*
Classical studies
Communication (COM 210, 216, 240, 312, and 316 only)
Comparative literature
English (except ENG G205, G206, G301, P131, W130, W131, W135, W140, W232, W233, W234, W321, W331, W398, and W421)
Film studies
Fine arts (excluding studio courses)
Folklore
French*
German*
History
Journalism (excluding JOUR C200, C300, and J300)
Latin American studies
Music (excluding performance/skills courses)
Philosophy
Religion
Russian*
Spanish* (except SPAN S425, S426, and S428)
Theatre (excluding performance/production courses)
Women's studies (excluding WOST W210 and W240)

*excluding courses used to satisfy the Part B requirement

Part D: Cultural Studies

You must complete two approved courses. Courses used to meet the IPFW General Education requirements or the requirements of Part C may also be used to fulfill Part D requirements; however, the credits for those courses count only once toward graduation.

1. Western Tradition. You must complete one of the following 3-credit courses dealing broadly with the Western tradition:

CLAS C205, C405
COM 312
ENG L101, L102
FINA H111, H112
HIST H113, H114
PHIL 110, 112, 240, 301, 331
POLS Y105, Y381, Y382

2. Non-Western Culture. You must complete one of the following 3-credit courses dealing exclusively or primarily with a non-Western culture or cultures:

ANTH E320, E321, E330, E335, E340, E341, E345, E401, E405, E420, E445, E455, E462, E470, P360, P370

CMLT C461

ENG L107, L113, L364, L387

FINA H415

FOLK F305, F352

HIST A310–A311, C393, D410, E331, E332, E431, F341, F342, F346, F432, G451, G452, H201, H202, H203, H204, H232, T335

PHIL 330

POLS Y339, Y340

REL 301

SPAN S246, S412, S471, S472, S477, S479, S480

WOST W301

Requirements for Bachelor of Science

In addition to Areas I through VI of the IPFW General Education program and the requirements for your major, you must satisfy the following school requirements:

1. Parts A and B listed below
2. At least 30 credits in upper-level courses as defined by the departments offering the courses (excluding military science courses)
3. A GPA of 2.00 or higher for all courses in the major department. At most, one approved course in the major discipline may also count toward satisfying IPFW General Education Area II–V requirements.
4. The IPFW General Education Area I computer literacy requirement for the School of Arts and Sciences is met by completing COM 114, ENG W131, and one additional course selected from the following: CS 106, CS 160, MA 149, MA 151, MA 153, MA 154, MA 163, MA 164, MA 165, MA 166, MA 168, MA 229, MA 230, STAT 125, or an approved departmentally specified course, or completion of STEPS (or successor program).
5. A sufficient number of elective credits to bring the total for graduation to 124.

Part A: English Writing

You must complete ENG W233 or an equivalent second writing course approved for this purpose by the School of Arts and Sciences. Approved equivalents are ENG L202,

FREN W300, GER W300, HIST H217, POLS Y205, SOC S260, or SPAN W300. You must complete both ENG W131 (or equivalent) and your second writing course with a grade of C or better.

Part B: Foreign Language

You must complete two courses at the first-year level (or demonstrate equivalent proficiency) in one language. Students in a teaching program are exempt from the foreign-language requirement. You are urged to begin studying a language as soon as possible. For advanced placement and special credit in foreign language, see the additional information for bachelor's degrees, below.

Additional Information for Bachelor's Degrees

Along with the IPFW academic regulations (see part 7), the following information applies to all bachelor's degree programs:

1. Special Credit for Foreign Language.

When you begin your foreign language study at the second-semester (113) level or higher, you are eligible to apply for special credit after you successfully complete the course into which you placed. You may receive up to 14 credits of special credit for the courses you skipped.

2. Undistributed Transfer Credit.

Undistributed transfer credit (for courses not equivalent to IPFW courses) may be used to satisfy General Education requirements, distribution requirements, and may be counted in the major. You should contact the school office to confirm the application to your program of any undistributed transfer credit you are awarded.

3. Credit Restrictions.

The following restrictions apply to all Arts and Sciences degrees:

- a. You may count no more than 4 credits in:
HPER activities
- b. You may count no more than 3 credits in:
IDIS courses ENG W135 MA 149, and only by those departments that allow graduation credit for MA 153
- c. You may count no credit in:
Developmental courses such as CHM 100; EDUC X15x; ENG R15x, W11x, and W130; and MA 109, 111, and 113.

Courses that provide only surveys of career opportunities, such as AGR 101, CNT 101, EDUA F300 (except when offered as Invitation to Teaching) and G250, EDUC X210, ENGR 101, HSRV 100 (1 cr.), HTM 100, IDIS 105, MHT 100 (1 cr.), NUR 101, RHIT 100, SPEA V352, and VM 102.

Courses designed to provide a skill not required to complete the major, such as AHLT Mxxx, AHSP Mxxx; BUFW C124, C125, C293, and X221; BUS K214; DAST Axxx; DHYG Hxxx; OLS 121; and SPV 379 and 399.

Courses offered by the former Indiana Division of General and Technical Studies (DGTS).

4. Credit for Military Service.

Credit for military service in the armed forces of the United States will not be counted toward graduation.

5. Overlapping Content.

You may not count toward graduation any courses or sequences considered to have overlapping content. Such courses are listed below; check this list before registering. This list may not be exhaustive. Please consult with your advisor. If you enroll in a course that appears in the left column, and you have completed any of the courses that are listed to its right, only the most recently completed course will apply toward graduation.

Courses with Overlapping Content

AHSP M195	BIOL 105
BIOL 100	BIOL 108–109 or 117–119 or 121/122–133/134 or 250

BIOL 105	AHSP M195
BIOL 108-109	BIOL 100 or 117-119 or 121/122-133/134 or 250
BIOL 117-119	BIOL 100 or 108-109 or 121/122-133/134 or 250
BIOL 121/122-133/134	BIOL 100 or 108-109 or 117-119 or 250
BIOL 203-204	BIOL 215-216
BIOL 215-216	BIOL 203-204
BIOL 218	BIOL 241-242
BIOL 220	BIOL 221 or 438-439 or 437
BIOL 221	BIOL 220 or 438-439 or 437
BIOL 233-234	BIOL 381-382
BIOL 241-242	BIOL 218
BIOL 250	BIOL 100 or 108/109 or 117-119 or 121/122-133/134
BIOL 317	PSY 317
BIOL 381-382	BIOL 233-234
BIOL 437	BIOL 220 or 221 or 438-439
BIOL 438-439	BIOL 220 or 221 or 437
BUS K200-K211-K212	CS 106
CHM 101-102	CHM 104 or 111-112 or 115-116 or 129 or 151
CHM 104	CHM 101-102 or 111-112 or 115-116 or 129 or 151
CHM 111-112	CHM 104 or 101-102 or 115-116 or 129 or 151
CHM 115-116	CHM 104 or 101-102 or 111-112 or 129 or 151
CHM 129	CHM 104 or 101-102 or 111-112 or 115-116 or 151
CHM 151	CHM 104 or 101-102 or 111-112 or 115-116 or 129
CHM 224	CHM 321
CHM 251	CHM 255-256 or 261-262
CHM 252	CHM 254-258 or 263-264 or 265-266
CHM 254-258	CHM 252 or 263-264 or 265-266
CHM 255-256	CHM 252 or 261-262
CHM 261-262	CHM 251 or 261-262
CHM 263-264	CHM 251 or 255-256
CHM 265-266	CHM 252 or 254-258 or 265-266
CHM 321	CHM 252 or 254-258 or 263-264
CHM 371	CHM 224
CHM 383-384	CHM 373-374 or 383-384
COM 250	CHM 371 or 373-374
COM 352	JOUR C200
CS 106	JOUR J300
ECON E200	BUS K200-K211-K212
ECON E201	ECON E201
ECON E270	ECON E200
EE 302	POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 260 or 301 or 303 or 307 or 511
ENG L220	STAT 311 or 516
ENG L315	ENG L315
ENG L374	ENG L220
ENG L379	ENG L379
ENG W131	ENG L374
ENG W135	ENG W135
ENG W140	ENG W131
ENG W233	ENG W233
FOLK F254	ENG W140
GEOL G100	MUS Z201
GEOL G103	GEOL G103 or S100
	GEOL G100 or S100
	GEOL G100 or G103
	HIST A345-A346

GEOL S100	HIST A316
HIST A316	HIST E431
HIST A345-A346	HIST E432
HIST E331	IDIS G102 or G103 or G104
HIST E332	IDIS 110 or G103 or G104
IDIS 110	IDIS 110 or G102 or G104
IDIS G102	IDIS 110 or G102 or G103
IDIS G103	COM 250
IDIS G104	COM 352
JOUR C200	MA 153
JOUR J300	MA 151 or 153–154 or 159
MA 149	MA 150 or 153–154 or 159
MA 150	MA 149
MA 151	MA 150 or 151 or 159
MA 153	MA 150 or 151 or 153–154
MA 153–154	MA 165–166 or 227–228 or 229–230
MA 159	MA 163–164 or 227–228 or 229–230
MA 163–164	MA 213–215
MA 165–166	MA 175 or 215
MA 175	MA 175
MA 213	MA 163–164 or 165–166 or 229–230
MA 213–215	MA 163–164 or 165–166 or 227–228
MA 227–228	MA 263
MA 229–230	MA 321 or 363
MA 261	MA 261
MA 262	MA 262 or 363
MA 263	MA 262 or 321
MA 321	FOLK F254
MA 363	PHYS 152–251 or 201–202 or 218–219 or 220–221
MUS Z201	PHYS 131–132 or 201–202 or 218–219 or 220–221
PHYS 131–132	PHYS 131–132 or 152–251 or 218–219 or 220–221
PHYS 152–251	PHYS 131–132 or 152–251 or 201–202 or 220–221
PHYS 201–202	PHYS 131–132 or 152–251 or 201–202 or 218–219
PHYS 218–219	PHYS 251 or 261
PHYS 220–221	PHYS 241 or 261
PHYS 241	PHYS 241 or 251
PHYS 251	ECON E270 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 260 or 301 or 303 or 307 or 511
PHYS 261	511
POLS Y395	PSY 416
PSY 200	ECON E270 or POLS Y395 or SOC S351 or SPEA K300 or STAT 240 or 260 or 301 or 303 or 307 or 511
PSY 201	511
PSY 235	PSY 369
PSY 317	BIOL 317
PSY 369	PSY 235
PSY 416	PSY 200
SOC S351	ECON E270 or POLS Y395 or PSY 201 or SPEA K300 or STAT 240 or 260 or 301 or 303 or 307 or 511
SPEA K300	511
STAT 240	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or STAT 240 or 260 or 301 or 303 or 307 or 511
STAT 260	511
STAT 301	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 260 or 301 or 303 or 307 or 511
STAT 303	307 or 511
STAT 307	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 301 or 303 or 307 or 511
STAT 311	307 or 511
STAT 340	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 260 or 303 or

STAT 511	307 or 511
STAT 512	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 260 or 301 or
STAT 516	307 or 511
WOST W200	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 260 or 301 or
WOST W210	303 or 511
	EE 302 or STAT 516
	STAT 512
	ECON E270 or POLS Y395 or PSY 201 or SOC S351 or SPEA K300 or STAT 240 or 260 or 301 or
	303 or 307
	STAT 340
	EE 302 or STAT 311
	WOST W210
	WOST W200

Upper-Level Courses

All courses numbered 300 or above are considered upper-level courses. In addition, the following 200-numbered courses, defined as upper level by the departments offering them, may be included in the 30 credits in upper-level courses required for graduation.

BIOL 215
 CHM 218, 224, 254, 255, 256, 258, 261, 262, 265, 266, 275,
 and 290
 ENTM 206-207
 GEOL G213, G221, and G222
 MA 261, 263, and 275
 PHYS 270
 PSY 201, 202, and 203, 272

Correspondence Study

Departments may approve enrollment in correspondence-study courses by students pursuing their majors. After you obtain a signature indicating departmental approval, you must bring the enrollment form to the School of Arts and Sciences for authorization to enroll.

Academic Load

You may register for more than 18 credits per semester or 7 credits in a six-week summer session only if: (1) your most recent semester GPA is 3.00 or higher, (2) you have no incomplete grades at the time of registration, and (3) you obtain approval of a dean of the school.

Pass/Not-Pass Option

The following restrictions are in addition to those in the IPFW academic regulations in Part 7 of this Bulletin:

1. You must be classified as a sophomore or higher and must have a GPA of 2.50 or better.
2. You may take no more than two courses per year under the Pass/Not-Pass Option. Summer-session enrollments are counted as part of the preceding academic year for the purpose of this restriction.

Academic Renewal Option

The School of Arts and Sciences participates in the Academic Renewal option for eligible students returning to IPFW after an absence of five or more years. See your advisor for additional details.

Changing Major Within the School

If you change your major within the school, your school requirements will be those specified in the Bulletin in effect at the time the change becomes effective.

School of Education

Neff Hall 250 ~ 260-481-4146 ~ www.ipfw.edu/educ/

The mission of the School of Education is to prepare professionals in teaching, counseling, and leadership who demonstrate the capacity and willingness to continuously improve schools and related entities so that they become more effective with their clients by:

1. Becoming more caring, humane, and functional citizens in a global, multicultural, democratic society
2. Improving the human condition by creating positive learning environments
3. Becoming change agents by demonstrating reflective professional practice
4. Solving client problems through clear, creative analyses
5. Assessing client performance, creating and executing effective teaching, counseling, and educational leadership by utilizing a variety of methodologies reflecting current related research
6. Utilizing interdisciplinary scholarship, demonstrating technological and critical literacies, and effectively communicating with all stakeholders.

The academic programs in the School of Education are listed below. Requirements for these programs appear in Part 4 of this *Bulletin*.

The School of Education at IPFW offers B.S.Ed. degrees in elementary education and secondary education, and an A.S. in early childhood education. B.S.Ed. degrees are divided into four concentrations based on developmental levels. They are divided under the following:

	<i>Concentration</i>	<i>School Setting</i>
<i>Elementary:</i>	Early Childhood (EC)	Preschool and Elementary: Primary
	Middle Childhood (MC)	Elementary: Intermediate
<i>Secondary:</i>	Early Adolescence (EA)	Middle School/Junior High
	<i>Select one content area major: earth/space sciences, French, German, language arts, social studies, Spanish</i>	
	Adolescence/Young Adulthood (AYA)	High School
	<i>Select one content area major: earth/space sciences, French, German, language arts, social studies, Spanish</i>	

The School of Education also offers minors in each of the content areas listed above (except AYA social studies) and the following:

Chemistry
Computer Education (endorsement for elementary or secondary)
Life Sciences
Mild Intervention (certificate for elementary or secondary)
Physical Sciences
Physics
Theatre

In addition the following teaching majors are available at IPFW through the following schools:

<i>Major</i>	<i>School</i>
Art Education (all school settings)	Visual and Performing Arts
Chemistry Teaching	Arts and Sciences
Life Sciences Teaching	Arts and Sciences
Mathematics Teaching	Arts and Sciences
Music Education	Visual and Performing Arts
Physics	Arts and Sciences
Theatre Teaching	Visual and Performing Arts

Teaching majors can also be completed as a part of the following B.A./B.S. programs:

<i>Major</i>	<i>School</i>
English	Arts and Sciences
French	Arts and Sciences
German	Arts and Sciences
Spanish	Arts and Sciences

Transition to Teaching

The School of Education also has an alternative route to teacher certification called Transition to Teaching for students who have already earned a baccalaureate degree. This one-year intense program offers teacher certification for elementary and secondary licensure at the graduate level. For a list of qualifications, prerequisites, course requirements, and general information, please contact the School of Education's Licensing and Advising Center (Neff 243).

School of Health Sciences

Neff Hall 142 ~ 260-481-6967 ~ www.ipfw.edu/hsc/

The mission of the School of Health Sciences is to educate students for health professions and the consumer and family sciences within the scope of national and state laws and accreditation guidelines. The school identifies and addresses the ever-changing needs of the communities served by IPFW through development and enhancement of appropriate programs in the health professions and consumer and family sciences.

IPFW is the leading resource for intellectual endeavors across the community. The School of Health Sciences specifically enriches the health professions, the consumer and family sciences, and the community through provision of services and expansion of knowledge. These enrichments include, but are not limited to, (1) promotion of research and scholarly endeavor; (2) leadership contribution within IPFW and the community it serves; (3) participation in professional organizations and activities; and (4) provision of opportunities for lifelong learning.

Available degrees and certificates are listed below.

Associate of Science

Subject

Dental Hygiene
Dental Laboratory Technology
Hotel, Restaurant, and Tourism Management
Nursing
Radiography

Department

Dental Education
Dental Education
Consumer and Family Sciences
Nursing
School of Health Sciences

Bachelor of Science

Subject

Hospitality Management
Human Services
Nursing

Department

Consumer and Family Sciences
Human Services
Nursing

Certificate

Subject

Critical Care Nursing
Dental Assisting

Department

Nursing
Dental Education

Transfer Program

Subject

Child Development and Family Studies
Clinical Laboratory Science
Cytotechnology
Dietetics
Health Information Administration
Medical Imaging Technology
Nuclear Medicine
Occupational Therapy

Department

Purdue
Indiana
Indiana
Purdue
Indiana
Indiana
Indiana
Indiana

Paramedic Sciences
Physical Therapy
Radiation Therapy
Respiratory Therapy
Retail Management

Indiana
Indiana
Indiana
Indiana
Purdue

To complete any of the above programs, you must fulfill the requirements of IPFW (see Part 7), the School of Health Sciences, and the specific program. Where school or department regulations are stricter than IPFW regulations, the stricter regulations apply.

Academic Renewal Option

Many of the degree programs offered by the school provide the Academic Renewal Option for eligible students returning to IPFW after an absence of five or more years.

See your advisor before or during the first semester you return for additional details.

Special Academic Regulations for Students in Health Sciences

The school reserves the right to require withdrawal of any student whose presence is detrimental to patients, faculty, or clinic personnel. Clinical sites reserve the right to require withdrawal of any student whose presence is detrimental to patients or clinical personnel.

Applicants with criminal records are advised that many agencies perform criminal-record screens on students who may be placed with them. These agencies may not accept a student who has a criminal record. In addition, students who have a record of a sex crime against a child may not be placed into a clinical in which there is an actual or potential possibility that they will come into contact with children (IC 5-2-12-12). Students who cannot be placed into clinicals due to their criminal records may be unable to graduate from the program and are advised to pursue a nonclinical degree.

Technical Standards

Nonacademic criteria that all applicants/students are expected to meet vary by degree program. These criteria include the following five categories: (1) observation; (2) communication; (3) motor-function; (4) intellectual-conceptual, integrative and quantitative abilities; and (5) behavior and social attributes.

School of Visual and Performing Arts

Visual Arts Building 102 ~ 260-481-6977 ~ www.ipfw.edu/vpa/

The mission of the IPFW School of Visual and Performing Arts is to (1) provide exceptional professional and liberal arts degree programs that combine development in an artistic discipline and career preparation in the arts to students through individualized instruction within a broadly based curriculum, (2) offer culturally enriching opportunities to all students and members of the university community, and (3) be recognized as the center for arts education, outreach, collaborations, and professional leadership in northeast Indiana as well as a major regional arts resource through excellence in artistic performances, productions, exhibitions, library holdings, and technology. To support this mission, the faculty of the School of Visual and Performing Arts subscribe to the highest academic, artistic, and ethical standards for themselves and their students.

The school is composed of the departments and program areas of fine arts, visual communication and design, music, and theatre and includes faculty associated with both Indiana University and Purdue University. More than 600 students majoring and minoring in the visual and performing arts receive instruction from professional and academic staff that include 32 full-time faculty, 9 half-time continuing lecturers, and more than 50 limited-term lecturers and visiting artists.

The school offers the following academic programs:

Associate of Science

<i>Subject</i>	<i>Department/Program</i>
Commercial Art	Visual Communication and Design

Bachelor's Degrees

<i>Subject</i>	<i>Department/Program</i>
Art Education (B.A.)	Fine Arts
Fine Arts (B.A. and B.F.A.)	Fine Arts
Fine Arts (B.F.A.)	Visual Communication and Design
Music (B.Mus. and B.S.)	Music
Music Education (B.Mus.Ed.)	Music
Music Therapy (B.S.M.T.)	Music
Theatre (B.A.)	Theatre
Theatre Teaching (B.A.)	Theatre

Certificate

<i>Subject</i>	<i>Department/Program</i>
Piano Pedagogy	Music

Minor

<i>Subject</i>	<i>Department/Program</i>
Art History	Fine Arts
Dance	Theatre
Music	Music
Studio Art	Fine Arts
Theatre	Theatre
Theatre Teaching	Theatre

The above programs are described in Part 4 of this *Bulletin*.

As a regularly admitted student, you must follow the degree requirements and the school and program academic regulations specified in the Bulletin in effect at the time you first enrolled in the school. If you wish to follow the degree requirements specified in a later edition of the Bulletin, you must consult with your departmental advisor.

Departments and program areas reserve the right to publish new academic requirements and regulations at the beginning of an academic year. If such changes occur, newly admitted students will be subject to the revised requirements.

Academic Renewal Option

The School of Visual and Performing Arts participates in the Academic Renewal Option for eligible students returning to IPFW after an absence of five or more years. See your advisor for additional information.

Departments

Audiology and Speech Sciences

Audiology and Speech Sciences School of Arts and Sciences

Neff Hall 279 ~ 260-481-6410 ~ www.ipfw.edu/aus

Biology

Department of Biology School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

The study of biology helps you prepare for careers in research, teaching, industry, government, medicine, medical technology, and several other health-related fields. More than half of all graduates earning a B.S. in biology from IPFW go on to graduate studies, either for advanced degrees or for professional certification.

Biology is among the most interdisciplinary of all sciences and requires a broad background in chemistry, physics, and mathematics, as well as biology. This background enables biologists to study the evolution of life; the manifestations of life from the level of viruses, bacteria, and individual cells to the structure and function of organisms; and the interactions of living organisms with each other and with their environments.

The Department of Biology has new facilities for its teaching and research programs, and its faculty represent many different fields within biology. Interested students can participate in research projects or in other forms of scholarly activity with individual faculty members (see Special Assignments in Biology under Options in Biology, below).

An Associate of Arts with a concentration in biology is described under Arts and Sciences in Part 3 of this *Bulletin*. Two related programs leading to a B.S. are available: life science teaching certification and medical technology. These are described later in this part of the *Bulletin*. A minor in biology is also available.

Special Regulation for Biology Majors

Time Limit All biology courses applied toward graduation must be completed within 10 years from the time the first biology course was completed.

Options in Biology

Preprofessional Study

Preprofessional students — those seeking careers in chiropractic, dentistry, medicine, optometry, osteopathy, physical therapy, podiatry, or veterinary medicine — should consult with their preprofessional advisor before deciding what specific elective courses in biology to take. Under exceptional circumstances, it may be possible for a biology major to begin professional school after completing three years of undergraduate work at IPFW and to receive credit for the final year after completing the first year of professional school. The B.S. is then awarded after the first year of professional school is completed. Detailed and early planning is necessary.

Special Assignments

in Biology Students who qualify may elect to do an independent project supervised by a faculty member. With the permission of the faculty member and the department chair, the student can enroll in either BIOL 295 or BIOL 595. The student must work closely with the faculty member to design and complete the project. Credits earned in these courses cannot be used to satisfy A/B-elective requirements, and a maximum of 6 such credits can be used toward graduation as general elective credits.

Cooperative Education (Co-op) Program

Co-op is designed to provide employment experience in an area of your academic interest while you are still enrolled in school. A co-op experience may be repeated. You may earn up to 2 elective credits toward your degree.

Honors Degree in Biology

You may earn an honors degree in biology by achieving an overall GPA of 3.00 or higher and a biology GPA of 3.50 or higher, conducting a two-semester (6-credit) research project, preparing a senior thesis based on the research project, and giving an oral presentation of the thesis research. The senior thesis committee must be established one semester before graduation.

Chemistry

Department of Chemistry
School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

The Department of Chemistry offers an associate and two bachelor's degree programs: the Associate of Science (A.S.) with a major in chemical methods (listed earlier in this *Bulletin*), the Bachelor of Science (B.S.) with a major in chemistry, and the Bachelor of Science in Chemistry (B.S.C.). Students pursuing one of these bachelor's programs may also be interested in the physical science teaching certification (listed separately in this *Bulletin*).

Civil and Architectural Engineering Technology

Department of Civil and Architectural Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 229 ~ 260-481-6797 ~ www.caet.ipfw.edu

Mission

To provide employers and the public of northeast Indiana with educated, technologically equipped graduates, able to serve the varied construction industries (represented by architectural, civil, and construction engineering technologies, and interior design) in advancing the solutions to problems facing the public and private sector.

Goals

- To provide education of the traditional and returning adult student for career success in the construction industry
- To develop a respect for diversity and a knowledge of contemporary professional, societal, and global issues with an understanding of professional and ethical responsibilities.
- To be responsive to the ever-changing technologies of the construction industries.
- To instill in students the desire for and ability to engage in lifelong learning.

The breadth of the curriculum will provide leadership potential in addressing problems of the region, its people, and its industries.

This program helps you prepare for employment with land surveying offices, highway departments, government engineering offices, railroads, utilities, general construction contracting firms, material supply organizations, and engineering consulting firms. You may work in estimating, drafting, structural detailing, construction expediting, sales, and surveying. Graduates with experience have become construction supervisors, chief drafting personnel, chiefs of survey parties, contractors, project superintendents, designers, and estimators. This program also prepares you to work toward the bachelor's degree in construction engineering technology. The civil engineering technology program does not lead to licensure as a professional engineer.

The department offers related majors in architectural engineering technology and construction engineering technology. All three programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, 410-347-7700, and provide problem-solving skills, hands-on competency, and state-of-the-art technical knowledge. Alumni of the department are employed in all areas of the building industry, including construction; architecture; interior design; civil engineering; land surveying; and state, county, and city governments.

Communication

Department of Communication School of Arts and Sciences

Neff Hall 230 ~ 260-481-6825 ~ www.ipfw.edu/comm/

Computer Science

Department of Computer Science College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 125 ~ 260-481-6803 ~ www.cs.ipfw.edu

Mission

The department strives to offer students excellent instruction and educational opportunities in computer science, information systems, and applied computer science.

It endeavors to provide its students a durable technical foundation in an environment of rapid technical change, to enable and promote their professional growth through contact with the best professional practice, and to play a role of resource and technical leadership in the regional communities.

Program Objectives

Graduates of both undergraduate programs must be able to:

- Analyze, design, implement, and evaluate a computerized solution to a real-life problem using appropriate tools.
- Communicate effectively through speaking, writing, and the use of presentation tools.
- Work effectively as a team member.
- Enter a professional computer science/information systems position or an appropriate graduate program.
- Pursue lifelong learning and continued professional development.
- Be aware of ethical and societal concerns relating to computers in society and apply this knowledge in the conduct of their careers.

Note:

Two bachelor's programs in computer science are offered: a B.A. and a B.S. You should review both programs, described below, before selecting one.

The degree programs in computer science provide a strong background to students interested in developing software for diverse computer applications. Preparation includes an understanding of programming and problem solving, data abstraction, computer hardware organization, operating systems, programming language design and translation, and development of large-scale software systems.

Consumer and Family Sciences

School of Health Sciences

Neff Hall 330 ~ 260-481-6562

Dental Education

Department of Dental Education School of Health Sciences

Neff Hall 150 ~ 260-481-6837

Special Academic Regulations for Students in Dental Assisting

Attendance

Because of the experiential learning process used in all dental assisting courses, class attendance is essential and mandatory. Some evening hours are required for additional clinical experiences and professional association meetings.

Physicals and Immunizations

Before beginning clinical courses, students must submit evidence that they have (1) completed an annual physical examination, (2) obtained the required immunizations, (3) completed TB testing, (4) received hepatitis B immunizations and Hepatitis B titer, and (5) hold a current CPR certification at the professional healthcare-provider level with the American Heart Association or the American Red Cross.

Please see Part 3 of the Bulletin, School of Health Sciences Special Academic Regulation for students in health sciences regarding student withdrawal and criminal records checks.

Special Academic Regulations for Students in Dental Hygiene

Attendance

Class attendance is essential and mandatory because of the experiential learning process used in all dental hygiene courses. Some evening hours are required for additional clinical experiences and professional association meetings.

Physicals and Immunizations

Before beginning clinical courses, students must submit evidence that they have (1) completed an annual physical examination, (2) obtained the required immunizations, (3) completed TB testing, (4) received hepatitis B immunizations, and (5) hold current CPR certification at the professional healthcare-provider level.

Please see Part 3 of the Bulletin, School of Health Sciences Special Academic Regulation for Students in Health Sciences regarding student withdrawal and criminal records checks.

Division of Organizational Leadership and Supervision

Neff Hall 288 ~ 260-481-6420 ~ www.ipfw.edu/ols/

The mission of the Division of Organizational Leadership and Supervision (OLS) is to integrate theory and practical application in developing leaders for roles in the dynamic organizational environment of the 21st century. This goal is accomplished through an interdisciplinary curriculum that emphasizes an understanding of people, groups, and the global community within an organizational framework.

OLS combines the study of leadership with a career concentration. The program focuses on understanding and working with people within organizations and the practical application of leadership concepts and theories. Students' creativity and competence in the administration of human resource systems, team design and facilitation, and the influencing processes that define leadership are developed through this program.

The division offers the following academic programs, which are described in Part 4 of this *Bulletin*.

Subject

Organizational Leadership and Supervision
Supervisory Leadership

Program

A.S., B.S., and Minor
Certificate

Educational Studies

Department of Educational Studies

School of Education

Neff Hall 250 ~ 260-481-6441

Elementary Education

Special Academic Regulations for Students in Elementary Education

In addition to the academic regulations of IPFW (see Part 7), the following rules apply to elementary education students.

GPA Requirements

Students with a cumulative GPA of 2.50 or higher are automatically admitted to the school. Students with a GPA of 2.00–2.49 who wish to transfer into the school or change their major may be admitted as education premajors. These students will not be eligible for admission to teacher education until they achieve a cumulative GPA of 2.50 or higher.

Developmental Courses

No credit toward graduation is awarded for ENG R150, R151, or W130; or MA 109 or 113.

Pass/Not-Pass Option

Permission to elect this option must be requested on a form available from the School of Education. Permission will be granted only if the course will not be used to fulfill any degree requirements other than total credits for the degree.

Correspondence Courses

The school approves limited numbers of credits earned by correspondence study. You may not use more than 18 credits of correspondence courses toward the degree.

Admission to Block 1

In order to be admitted into Block I, you must earn a B or better in the following courses: ENG W131, COM 114, and EDUC W200. You must earn a C or better in the following courses: EDUC K201 and a quantitative reasoning (math) course, and you must pass EDUA F300. You must pass the Pre-Professional Skills Test (PPST). You must complete 45 credits with a cumulative GPA of 2.50.

For the bachelor's degree, you must complete each course in the education blocks 1, 2, and 3 with a grade of C or better. In blocks 2 and 3 you must have an overall GPA of 2.50 or higher in each block. Elementary education students must complete each general education area with a GPA of 2.00 or higher. Grades earned in each teaching minor and/or concentration must average 2.50 or higher. You must have earned a cumulative GPA of 2.50 or higher to be eligible to receive a B.S.Ed.

Academic Fresh Start

The school has an academic fresh start option to assist students who are returning to college after an absence of five or more years. The policy permits students' recent college performance to determine the GPA required for admission into teacher education.

You must apply for this option after the completion of 12 credits following the admission/readmission to IPFW. For further information, consult with your academic advisor or visit the School of Education Licensing and Advising Center, Neff 243.

Upper-Division Courses

You must complete at least 35 credits at the 300–400 level.

Deadlines

Before you student teach, you must satisfactorily complete a speech and hearing examination prescribed by the School of Education. During the senior year, you must file an application for your degree.

Resident Study

You must complete your final 32 credits at IPFW, with at least 12 of these credits in professional education courses.

Teacher Licensure

To be eligible for initial teacher licensure, you must complete the elementary education requirements for a bachelor's degree, pass the Praxis I and Praxis II exams, complete a criminal history report, and apply for the license.

Early Field Experience Program

If you are pursuing a B.S. in elementary education, you are required to participate in the prescribed field-experience program. Field-experience courses are numbered M101, M201, M301, and M401 and must be taken as shown in the degree-requirements listings.

This distinctive program provides an organized series of courses designed to integrate all professional education courses with field experiences. The program allows you repeated opportunities to participate with teachers/pupils in classrooms. In the early part of your field-experience program, you are introduced to teaching, educational concerns, goal setting, and professionalism.

Student Teaching

All students expecting to student teach should schedule an appointment and file a completed application in the office of Student Teaching, Neff 243, one year before you plan to student teach. Appointments are available between October to December for students who plan to student teach in the fall semester or January to March for students who plan to student teach in the spring semester. Please do not submit an application unless you actually intend to complete your student teaching during the upcoming school year. Exact dates are available by contacting the office of Student Teaching (Neff 243, 260-481-6449).

Portfolio

All students seeking initial teacher certification must complete and submit a portfolio for assessment. The portfolio is based upon the Interstate New Teachers Assessment and Support Consortium (INTASC) Standards and is used to assess a teacher candidate's knowledge and mastery of the standards. Portfolio checkpoints are seen throughout the program of study with a final assessment taken during the student teaching semester.

Secondary Education

Special Academic Regulations for Students in Secondary Education

In addition to the academic regulations of IPFW (see Part 7), the following rules apply to secondary education students.

GPA Requirements

Students with a cumulative GPA of 2.50 or higher are automatically admitted to the school. Students with a GPA of 2.00–2.49 who wish to transfer into the school or change their major may be admitted as education premajors. These students will not be eligible for admission to teacher education until they achieve a cumulative GPA of 2.50 or higher.

Developmental Courses

No credit toward graduation is awarded for ENG R150, R151, or W130; or MA 109 or 113.

Pass/Not-Pass Option

Permission to elect this option must be requested on a form available from the School of Education. Permission will be granted only if the course will not be used to fulfill any degree requirements other than total credits for the degree.

Correspondence Courses

The school approves limited numbers of credits earned by correspondence study. You may not use more than 18 credits of correspondence courses toward the degree.

Admission to Block 1

In order to be admitted into Block 1 you must earn a B or better in the following courses: ENG W131, COM 114, and EDUC W200. You must earn a C or better in the following courses: EDUC K201 and a quantitative reasoning (math) course, and you

must pass EDUA F300. You must pass the Pre-Professional Skills Test (PPST). You must complete 45 credits with a cumulative GPA of 2.50.

For the bachelor's degree, you must complete each course in the education Blocks 1 and 2 with a grade of C or better. In Block 2 you must have an overall GPA of 2.50 or higher. Secondary education students must complete each general education area with a GPA of 2.00 or higher. Grades earned in each teaching major and/or minor must average 2.50 or higher. You must have earned a cumulative GPA of 2.50 or higher to be eligible to receive a B.S.Ed.

Academic Fresh Start

The school has an academic fresh start option to assist students who are returning to college after an absence of five or more years. The policy permits students' recent college performance to determine the GPA required for admission into teacher education.

You must apply for this option after the completion of 12 credits following admission/readmission to IPFW. For further information, consult with your academic advisor or visit the School of Education Licensing and Advising Center, Neff 243.

Upper-Division Courses

You must complete at least 35 credits at the 300-400 level.

Deadlines

Before you student teach, you must satisfactorily complete a speech and hearing examination prescribed by the School of Education. During the senior year, you must file an application for your degree.

Resident Study

You must complete your final 32 credits at IPFW, with at least 12 of these credits in professional education courses.

Teacher Licensure

To be eligible for initial teacher licensure, you must complete the secondary education requirements for a bachelor's degree, pass the Praxis I and Praxis II exams, complete a criminal history report, submit a satisfactory portfolio (see below), and apply for the license.

Early Field Experience Program

If you are pursuing a B.S. in secondary education, you are required to participate in the prescribed field-experience program. Field-experience courses are numbered M101, M201, M301, and M401 and must be taken as shown in the degree-requirements listings.

This distinctive program provides an organized series of courses designed to integrate all professional education courses with field experiences. The program allows you repeated opportunities to participate with teachers/pupils in classrooms.

In the early part of your field-experience program, you are introduced to teaching, educational concerns, goal setting, and professionalism.

Student Teaching

All students expecting to student teach should schedule an appointment and file a completed application in the office of Student Teaching, Neff 243, one year before you plan to student teach. Appointments are available between October to December for students who plan to student teach in the fall semester, or January to March for students who plan to student teach in the spring semester. Please do not submit an application unless you actually intend to complete your student teaching during the upcoming school year. Exact dates are available by contacting the office of Student Teaching (Neff 243, 260-481-6449).

Portfolio

All students seeking initial teacher certification must complete and submit a portfolio for assessment. The portfolio is based upon the Interstate New Teachers Assessment and Support Consortium (INTASC) standards and is used to assess a teacher candidate's knowledge and mastery of the standards. Portfolio checkpoints are seen throughout the program of study with a final assessment taken during the student teaching semester.

Early Childhood Education

Special Academic Regulations for Students in Early Childhood Education

In addition to the academic regulations of IPFW (see Part 7), the following rules apply to early childhood students.

Developmental Courses

No credit toward graduation is awarded for ENG R150, R151, or W130; or MA 109 or 113.

Pass/Not-Pass Option

Permission to elect this option must be requested on a form available from the School of Education. Permission will be granted only if the course will not be used to fulfill any degree requirements other than total credits for the degree. A.S. students are limited to two courses under this option.

Correspondence Courses

A.S. students may not use more than 9 credits of correspondence courses credit toward the degree.

Grades

You must complete each professional education course with a grade of C or better. You must have earned a cumulative GPA of 2.00 or higher to be eligible to receive the A.S.

Academic Fresh Start

The school has an academic fresh start option to assist students who are returning to college after an absence of five or more years. The policy permits students' recent college performance to determine the GPA required for admission into teacher education.

You must apply for this option after the completion of 12 credits following admission/readmission to IPFW. For further information, consult with your academic advisor or visit the School of Education Licensing and Advising Center, Neff 243.

Resident Study

You must complete your final 32 credits at IPFW, with at least 12 of these credits in professional education courses.

Electrical and Computer Engineering Technology

Department of Electrical and Computer Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

The Department of Electrical and Computer Engineering Technology (ECET) offers the Bachelor of Science with a major in computer engineering technology (CPET) and the Associate of Science and Bachelor of Science with a major in electrical engineering technology (EET). The CPET B.S. program prepares students for careers as professionals in many areas involving computer systems and electronics. Some of these are hardware and software support and design for industrial networking, Internet and networking control, computer systems, instrumentation, and other emerging technical areas. Program graduates have titles such as embedded software technologist, computer support specialist, networking support specialist, automation engineer, applications engineer, telecommunications engineer, network support technical/engineer, and network administrator. The ECET department has more than 1,000 alumni with A.S. and/or B.S. EET degrees and hold technical and managerial positions nationwide.

This new CPET program was approved by the Indiana Commission of Higher Education in October 2003 and will be ready for accreditation in 2010 by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology Inc. (TAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, 410-347-7700. In addition to the degree programs, the department also offers a minor in electronics and certificate programs in advanced microprocessors, computer controlled systems, electronics communications, power electronics systems, and computer networking.

Mission

The mission of the department is to offer high-quality undergraduate EET, CPET, and certificate programs. These programs meet regional needs and include credit and noncredit training in electrical, electronics, computer applications, and computer networking. The department seeks to advance and share technical knowledge through teaching and creative endeavors, and to work with regional industries to develop and increase technically knowledgeable human resources.

Engineering

Department of Engineering

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 327 ~ 260-481-6362 ~ www.engr.ipfw.edu

IPFW offers bachelor's programs in electrical engineering, mechanical engineering, and computer engineering. The electrical and mechanical engineering programs are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology Inc. (EAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, 410-347-7700. The computer engineering program is new and being reviewed for accreditation.

Studies in engineering emphasize the practical and analytical aspects of engineering by combining laboratory and lecture courses in the sciences, humanities, and engineering sciences.

Mission

The mission of the Department of Engineering is to offer engineering programs that prepare students for successful careers in professional engineering positions. The engineering programs will be accessible to traditional and nontraditional students and will support evolving career objectives through an emphasis on the value of lifelong learning.

Educational Objectives

The faculty of the engineering department at IPFW is committed to continuous improvements in its engineering programs. As such, the faculty continues to work with the alumni, their employers, and the Industrial Advisory Board to develop the following educational objectives:

- To prepare students for successful careers in industry, tailored to meet the needs of the northeast Indiana region.
- To develop student expertise in the synthesis process, with an emphasis on product design.
- To provide the opportunity for students to work as a team on multidisciplinary projects.
- To provide students with a sound foundation in the mathematical, scientific, and engineering fundamentals necessary to solve engineering problems and to pursue graduate study.
- To promote student awareness of the need for professional registration and lifelong learning, to introduce students to written ethical code and to offer them ethical guidance as they embark on their careers.

Admission

To gain admission to the B.S.E.E. or B.S.M.E. programs, in addition to satisfying IPFW admission requirements (see Part 7), you should rank in the upper half of your high-school class and have the following courses on your record:

<i>Subject</i>	<i>Semesters</i>
Algebra	4
Biology or physics	2
Chemistry	2
English	8
Plane geometry	2
Trigonometry	1

Additionally, you must have a minimum SAT I verbal score of 480 and an SAT I mathematics score of 520 for admission to freshman engineering. If you only partially meet the above requirements, you may be admitted to IPFW in a pre-engineering status while taking courses that will prepare you for admission to an engineering program.

Admission deadlines for the Department of Engineering are:

Aug. 1 for the fall semester.

Dec. 15 for the spring semester.

May 1 for Summer Session I.

June 15 for Summer Session II.

Special Academic Regulations for Students in the Department of Engineering

Plan of Study

A one-year plan of study must be approved by your academic advisor every semester to ensure that you are making progress towards graduation.

Concentration Course Grades

You must have a combined GPA of at least 2.00 in all ECE, ENGR, and ME courses and in any other courses used to fulfill technical-elective requirements. It is your responsibility to see that this requirement is met. Even though the grade of D is accepted as a passing grade (except in COM 114, ENG W131, and all mathematics courses where a grade of C or better is required), it is highly recommended that the course be repeated if it serves as a prerequisite to another required course.

English and Linguistics

Department of English and Linguistics School of Arts and Sciences

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

The Department of English and Linguistics offers courses in all periods of British and American literature; in special topics, such as children's literature; and in writing, film study, linguistics, folklore, and mythology. Degree programs in English and minors in creative writing, English, folklore, linguistics, and professional writing are designed for students who desire a humanistic education. The program in English offers excellent preparation for many different careers. Literary study provides a basis for understanding various forms of cultural expression; writing skills are a powerful tool in an age dominated by information technologies; linguistics teaches the structure and function of language; folklore introduces the student to voices otherwise neglected by the dominant culture. The Bachelor of Arts with a major in English is appropriate for someone who wishes to enter a graduate or professional school. Degree options also prepare students for careers in teaching, writing, and business communications.

An Associate of Arts with a concentration in English, offered by the School of Arts and Sciences, is described in Part 3 of this *Bulletin*.

Geosciences

Department of Geosciences School of Arts and Sciences

Science Building 230 ~ 260-481-6249 ~ www.geosci.ipfw.edu

The Department of Geosciences offers the B.A. with a major in geology and the B.S. in geology with options in geology and environmental geology. These programs help you prepare for employment as a professional geologist or in many technical and nontechnical disciplines unrelated to geology, for teaching earth and space science in middle and secondary schools, or for further study at the graduate level.

The Bachelor of Arts program provides broad experience in the natural sciences, mathematics, humanities and social sciences, providing a spectrum of knowledge to prepare you for many technical and nontechnical fields. The Bachelor of Science program emphasizes technical components. It is particularly well-suited for prospective professional geologists or those expecting to seek advanced degrees in geology. Graduates of this program are finding the nation's oil, gas, and mineral resources; resolving environmental problems of the air, water, and soil; and discovering the ways the physical world works.

Classes in advanced subject areas are typically small, with significant individualized attention from the faculty. Highly qualified students gain valuable experience assisting with faculty research or may be employed by the department as laboratory and teaching assistants. Many geoscience courses include field trips ranging from one day to two weeks. These trips provide opportunities for students to travel and study geology throughout North America.

History

Department of History School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/hist

Courses and programs in history help you gain a better understanding of yourself and your world and prepare you for a career in teaching, library work, law, public service, or a related profession.

The requirements for the bachelor's degree, the honors degree, the minor, and teacher certification in history. An Associate of Arts with a concentration in history is described under School of Arts and Sciences.

Human Services

Department of Human Services School of Health Sciences

Neff Hall 120 ~ 260-481-6424

International Language and Culture Studies

Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

French

The Department of International Language and Culture Studies offers majors in French for the B.A. and B.A. with teaching certification, a minor and a teaching minor in French, and study-abroad opportunities. An Associate of Arts with a concentration in French, offered by the School of Arts and Sciences, is described in Part 3 of this Bulletin.

German

The Department of International Language and Culture Studies offers majors in German for the B.A. and the B.A. with teacher certification, a minor and a teaching minor in German, and studyabroad opportunities. The department offers similar programs in French and Spanish, and limited courses in other languages. An Associate of Arts with a concentration in German, offered by the School of Arts and Sciences, is described in Part 3 of this Bulletin.

German is the language of a major culture and will be increasingly important in the context of rapid change in Europe early in the 21st century. German-speaking countries influence the arts, journalism, medicine, philosophy, politics, technology, and the world economy. Students with interests in business or international studies are encouraged to learn German. The Department of International Language and Culture Studies offers a full curriculum, including German culture, language, and literature. A major in German may be combined with a major in another field, a business minor, or a teaching certificate. With a major in German and a degree, in particular a B.A., you may continue your education in languages or expand into other fields at a graduate school, or you may pursue a career in business or teaching.

Study Abroad

Both majors and nonmajors are encouraged to study abroad. For those who wish to study German, Indiana University administers and cosponsors an academic-year program in Freiburg, a semester program in Freiburg, and a summer program in Graz (Austria).

Spanish

The Department of International Language and Culture Studies offers majors in Spanish for the B.A. and B.A. with teaching certification, a minor and a teaching minor in Spanish, and studyabroad opportunities as well as similar programs in French and German and limited courses in other languages. An Associate of Arts with a concentration in Spanish, offered by the School of Arts and Sciences, is described in Part 3 of this Bulletin.

Spanish is the language of nearly 300 million of the world's people, including many millions in the United States. It is the official language of Spain as well as most of the countries of the western hemisphere. Increasingly, Spanish is a language of commercial, cultural, and political importance in the world. The Department of International Language and Culture Studies offers a full curriculum in the culture, language, and literature of Latin America and Spain. A major in Spanish may be combined with a major in another field, a business minor, or a teaching certificate. With a major in Spanish and a degree, in particular a B.A., you may continue your education in languages or expand into other fields at a graduate school, or you may pursue a career in business or teaching.

Study Abroad

Both majors and nonmajors are encouraged to study abroad. For those who wish to study Spanish, Indiana University administers and cosponsors an academic-year program in Madrid, Spain; semester programs in Spain (Alicante, Madrid, and Seville) and Chile (Santiago); and summer programs in Spain (Salamanca) and Mexico (Cuernavaca and Guanajuato).

Mathematical Sciences

Department of Mathematical Sciences

School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

Mathematics Teaching

The Department of Mathematical Sciences offers programs leading to the Bachelor of Science with a major in mathematics and in mathematics teaching.

Mechanical and Industrial Engineering Technology

Department of Mechanical and Industrial Engineering Technology

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 205 ~ 260-481-6385 ~ www.mft.ipfw.edu

The Department of Mechanical and Industrial Engineering Technology (MIET) in the College of Engineering, Technology, and Computer Science serves the needs of students, industry, and government in northeast Indiana.

The department offers Associate of Science (A.S.) and Bachelor of Science (B.S.) degree programs in industrial engineering technology (IET) and mechanical engineering technology (MET). The programs in IET and MET (both A.S. and B.S.) are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology Inc. (TAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, 410-347-7700. The department also offers a certificate in quality.

The primary focus of the department is the development of its students. It encourages students to acquire the knowledge and understanding that helps them contribute to society by leading meaningful and productive lives.

The major thrust of the department is to prepare graduates to understand basic concepts of knowledge, have studied one technical field in sufficient depth to appreciate its methodologies and fundamental unresolved questions, and have acquired a basis for lifelong learning. Attainment of the above is accomplished through the establishment of required courses in 1) a core of general education, 2) required technical courses in the major area, and 3) elective courses combining breadth of subject matter with specific study in depth. Laboratory experience is an essential part of both associate and bachelor degree programs.

Mission

The mission of the Department of Mechanical and Industrial Engineering Technology is to offer quality mechanical and industrial undergraduate engineering technology programs that meet regional needs; to advance and share technical knowledge with students and industry, through teaching, service, and research; and to support the missions and goals of the college and university.

Music

Department of Music

School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714 ~ www.ipfw.edu/vpa

Music and an Outside Field, Music Education, Music Performance

The Department of Music provides degree programs leading to careers in music, functions as a service department to the university, and serves as a musical center and resource for Greater Fort Wayne and northeast Indiana. The department offers programs leading to the following degrees: Bachelor of Music in performance, Bachelor of Music Education, Bachelor of Science in Music and an Outside Field, and Bachelor of Science in Music Therapy. A minor in music and a certificate in piano pedagogy are also available.

Accreditation

Programs offered by the department are accredited by the National Association of Schools of Music, American Music Therapy Association, and the National Council for Accreditation of Teacher Education.

Admission

One must satisfy the admission requirements of IPFW (see Part 7) and successfully complete an audition and entrance placement exams wherein appropriate faculty committees evaluate a student's musical knowledge, skill, and potential. Students who do not meet all music-department entrance requirements may be admitted to the department as pre-music students. (See *Department of Music Student Handbook* for further information.)

Curricula

To complete a degree in music, one must satisfy the university's general education requirements, Department of Music core requirements, and requirements specific to the degree program.

Special Academic Regulations for Students Majoring in Music

Department Handbook

Detailed information regarding policies and practices of the department is included in the *Department of Music Student Handbook*, available in the department office. Information included below is detailed in the handbook. All music majors are expected to be familiar with the contents of the handbook.

Academic Probation

As a music major, you must earn: 1) a semester GPA of 2.00 and a cumulative GPA of 2.00 or higher; 2) a semester GPA of 2.5 or higher for all music courses required for your degree program; 3) a C or better in a music course or ensemble required for your degree, with the exception of X095 Performance Class. Should you fail to meet these standards, you will be placed on departmental probation.

Students on probation may lose eligibility for scholarships and financial aid, as well as risk dismissal from the program. See the department's student handbook for further information on academic probation.

Dismissal

You will be dismissed from the department when (1) you have been placed on departmental probation due to grade point deficiency and do not correct the deficiency in the next semester of enrollment; (2) you have been placed on departmental probation for failure to earn a C or better in a music course required for your degree (with the exception of X095 Performance Class) and do not earn a C or better in your second attempt in the same course; (3) you fail to earn a C or better in two consecutive semesters of the same ensemble.

Readmission

If you are dismissed, you may petition for readmission to the Department of Music one semester from the date of your dismissal. Students returning from dismissal will automatically be on probation. Failure to maintain a 2.5 GPA for the first semester of re-entry or to make a C or better in a required music course will result in permanent dismissal from the department.

Keyboard Proficiency

All music majors must pass a keyboard proficiency examination. Entering students who are prepared to take the examination may do so before registration; all others must register in piano courses until this requirement is satisfied. The examination tests ability to use the piano as a professional tool. The test is given in portions at the three exam periods each semester and may be taken at other times by special arrangement with the coordinator of the area.

Transfer Credits

Audition and placement exams will be required. You may be accepted by the department with upper-divisional standing.

Upper-Division Standing

During the semester in which you are enrolled in or have successfully completed MUS T214, 216, M202, and the fourth semester of applied music at the 300 or 400 level on the same instrument, you are eligible and will be expected to take the Upper Division Performance Examination (MUS X296), an applied music performance for the applied music instructor and the resident music faculty. Upon the recommendation of the applied instructor and advisor, the performance examination may be postponed beyond four semesters of study on the primary instrument, but you must achieve eligibility and take the examination by the end of the sixth semester of study. No extensions will be given beyond the sixth semester except in the case of extreme extenuating circumstances and will require the recommendation of the applied instructor and the advisor and approval by the chair of the department. Failure to achieve eligibility does not constitute extenuating circumstances. For complete procedures, see the Department of Music Student Handbook.

Music education majors must complete the Music Education Upper Divisional Examination (MUS X297). Music therapy majors must complete the Music Therapy Skills Examination MUS X298. See the course descriptions for content and prerequisites for these examinations.

Performance Studies for Students Majoring in Music

Primary Performance

Area Performance study (applied music) is required of all music majors and is available for the study of voice, keyboard, winds, strings, and percussion. Students are assigned to applied-music teachers on the basis of instructor availability and suitability. An audition and departmental permission are required. Both a junior and a senior recital are required for the B.Mus. All other degrees require a concentration recital, the required number of semesters of study varying with the degree. To be eligible to perform a recital, you must be enrolled in an applied music course. A successful prerecital hearing is required. For a complete list of guidelines, refer to the Department of Music Student Handbook.

Secondary Performance Area

All students must pass the Keyboard Proficiency Examination (X299). Students for whom keyboard is not the primary applied area must enroll in Class Piano (P111, 121, 131, 141) until the examination is completed. If students complete the examination in fewer than four semesters, they will normally complete the credits with further applied study at the 200 level in piano. Study of another instrument or voice is possible, but contingent upon the consent of the degree advisor and the appropriate applied instructor. An audition is required to enter 200-level study. Students whose primary instrument is keyboard will take one semester of Keyboard Skills (P211) and three semesters of 200-level applied study of another instrument or voice. The choice of instrument requires the consent of the degree advisor. An audition is required to enter 200-level study.

Performance Class X095

This 0-credit course is a weekly meeting of music majors and minors and serves as a laboratory for performance. Part of the course requirement is attendance at specified public concerts and recitals. Refer to the listing of courses for your degree program for specific information regarding your required minimum number of semesters.

Music minors should refer to the course description for X095-02 to find their specific requirements.

Ensemble Requirements

Music majors are required to enroll in a major ensemble each semester of enrollment in the applied primary. Refer to the listing of courses for your degree program for specific information regarding your required minimum number of ensemble credits. Piano performance majors (Bachelor of Music) may substitute X002 (Accompanying) for two semesters toward this requirement.

Correspondence Study

Limited credit toward your degree may be earned by correspondence study. See your advisor for additional information.

Restriction on Use of University Facilities

University facilities are not to be used for any private enterprises such as teaching.

Time Limit

At the time you are awarded your music degree, it is intended that you be current in the knowledge and skills you have attained. Accordingly, if you do not complete the requirements within seven years of matriculation, you may be required to (1) demonstrate your eligibility to continue in your degree program by passing comprehensive examinations in all music subjects previously completed, and (2) meet the degree requirements specified in the current Bulletin. Time spent fulfilling a military-service obligation will not be counted toward this seven-year limit.

Nursing

Department of Nursing School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/nursing

The IPFW Parkview Nursing Program is accredited by the National League for Nursing Accreditation Commission (NLNAC), 61 Broadway 33rd Floor, New York, NY 10006, telephone, 1-800-669-1656. All current nursing policies are online at www.ipfw.edu/nursing/handbook/default.shtml.

As graduates of a prelicensure nursing program, students will have attained the knowledge and skills needed to provide quality healthcare and the academic credentials required to take the National Council Licensure Examination (NCLEX-RN). Upon successful completion of this examination, the student will be eligible to practice as a registered nurse. The associate degree graduate is prepared to provide nursing care within structured healthcare organizations. The baccalaureate degree graduate is prepared at the professional level to function in a leadership role with other team members in varied and complex healthcare settings.

The RN-B.S. curriculum is uniquely designed for associate degree or diploma registered nurses, working full or part time, who wish to step up to bachelor's degree. It is designed to meet the student's professional goals in a flexible environment. Included in the program are two clinical practicums in a variety of acute, longterm, and community settings. Advising is personalized.

Students are responsible for current nursing policies found online at www.ipfw.edu/nursing/handbook/default.shtml.

Prenursing

Admission to the nursing program from prenursing is limited and competitive. Prenursing applicants must meet the following requirements:

- Be admitted to IPFW as a degree-seeking student (see Part 7)
- Complete 16 hours of prenursing curriculum with a grade of C or better in each course. Courses may be repeated only one time. The prenursing curriculum includes:

PSY 120

ENG W131

CHM 104 or CHM 111

BIOL 203

COM 114

- Have a minimum IPFW grade-point average (GPA) of 2.5 on a 4.0 scale in the prenursing curriculum. The GPA is calculated on only the 16 hours of prenursing curriculum taken at IPFW or at other Purdue University or Indiana University campuses. Applicants are ranked based on this GPA. This GPA does not include transfer courses.
- A minimum GPA does not guarantee admission. The actual GPA necessary for admission varies with the GPA distribution of the applicant pool and the number of available seats for admission.

- Applicants are required to take a preadmission examination. The examination is administered on specific dates and times. Applicants pay a testing fee.
- All transfer grades will be reviewed and evaluated in the admission process.
- First-priority consideration for program admission will be given to students who have completed 9 or more of the 16 prenursing curriculum hours at IPFW or at other Purdue University or Indiana University campuses. Three credit hours of a required science must be taken at a Purdue University or Indiana University campus for admission consideration.
- If additional seats are available, the second priority is given to students who have completed less than 9 of the 16 prenursing curriculum hours at IPFW or at other Purdue University or Indiana University campuses. Three credit hours of required science must be taken at a Purdue University or Indiana University campus for admission consideration.
- If additional seats are available, the third priority is given to students who have none of the 16 prenursing curriculum hours at IPFW or at other Purdue University or Indiana University campuses. In this case, the transfer GPA of the prenursing curriculum will be used for admission.

Transfer Students from Other Nursing Programs

Transfer students from other NLNAC- or CCNE-accredited RN nursing programs may be considered for admission based on availability of space. Students must have completed 24 credit hours with a GPA of 3.5 (4.0 scale) or higher.

- Applicants are required to take a preadmission examination. The examination is administered on specific dates and times. Applicants pay a testing fee.

Criteria for Dismissal from Prenursing/ Ineligibility for Admission to Nursing

- A student who earns two grades below C in the same or any combination of two courses required in the prenursing curriculum will be ineligible for program admission for a period of five years after earning the last grade below C.

Criteria/Requirements for All Applicants

- Should a tie in applicants' GPAs occur, rank ordering will be based upon the number of repeated courses at IPFW and then on grades earned in science courses at IPFW.
- Students will apply to enter the A.S. or B.S. degree program.
- Students are admitted for a specific semester and are expected to enter that semester. Students who do not enter that semester must reapply for competitive program admission. Students who decline admission two times will no longer be considered.
- Students must apply by the following deadlines: May 1 (fall semester) or Dec. 1 (spring semester).
- LPN admission is conducted once per year with a Dec. 1 (spring semester) application deadline.
- Students must return the acceptance form by the deadline stated in the acceptance letter.
- Students who have not been accepted, but who are qualified, may reapply for admission.
- Credits in developmental courses (ENG R150, R151, W130, or MA 109) do not apply toward either the prenursing or nursing curriculum.
- Students must have completed courses in biology and pharmacology within five years of application.
- Students must have completed courses in chemistry and nutrition within 10 years of application.

Special Academic Regulations for Students in Nursing

Physicals, Immunizations, TB, and CPR

- Proof of physical examination within six months of admission, required immunizations, and required TB testing must accompany the nursing application.
- Proof of CPR, TB, and liability insurance must be submitted to the nursing office each semester by Aug. 1 (fall semester), Dec. 1 (spring semester), and May 1 (summer session).

Degree Requirements

- Students are expected to complete the A.S. within four years after admission to the program.
- Students are expected to complete the B.S. within five years after admission to the program.
- Students are required to complete the degree under the requirements specified in the Bulletin, Requirements for Degrees (see Part 7), and School of Health Sciences (see Part 3), in effect at the time of admission to nursing.

Validating Previous Knowledge and Experience

- Previously acquired knowledge/experience may be validated by challenge examination(s). Contact a nursing or prenursing advisor for specific information and department guidelines.
- In all cases, eligibility for a challenge examination; the type of examination; testing procedures, date, time, and location; and evaluation of the performance will be determined by the IPFW Department of Nursing faculty. Decisions made by the department faculty with respect to the above are final. Only one attempt at an authorized challenge examination may be made.
- RN–B.S. students who are certified by a recognized nursing organization may seek credit towards a nursing elective. Certain certificates may be used as credit for required nursing courses.
- If a student earns a grade below C in a required nursing course, enrollment in another nursing course cannot be completed until the failed course is repeated with an earned grade of C or better.
- If a student earns two grades below C in the same or any combination of two courses required in the nursing curriculum, the student will be dismissed from the nursing program. A student who has been dismissed from the nursing program is ineligible for admission into the nursing program for a period of five years from the date of dismissal.
- Dismissal from the nursing program may result at anytime if it is determined that inappropriate behavior of a nursing student places clients, other students, staff, faculty, or the university at risk for any harm or potential harm.
- A student who is dismissed may appeal the decision to the Department of Nursing. If the student is dismissed for failure to meet the university's minimum academic standards, application for readmission must follow the procedures established by the university. The Department of Nursing does provide the Academic Renewal option.

Philosophy

Department of Philosophy School of Arts and Sciences

Neff Hall 130 ~ 260-481-6366

Physics

Department of Physics

School of Arts and Sciences

Kettler Hall 126B ~ 260-481-6306 ~ www.ipfw.edu/physics/

Political Science

Department of Political Science

School of Arts and Sciences

Classroom-Medical Building 209 t 260-481-6686 ~ www.ipfw.edu/pols

Political science includes basic issues in governance; political structures, processes, and controls; social conditions; and intergovernmental relations. This program helps you prepare to be an informed citizen or public servant; to succeed in a wide variety of careers; or to engage in further study of government, politics, or law.

In addition to the Bachelor of Arts and the minor in political science, the department offers specialized advising for prelaw students and teacher preparation in social studies. An Associate of Arts with a concentration in political science is described in the School of Arts and Sciences section of Part 3.

Prelaw Program and Advising

Advising for prelaw students is provided by faculty in the political science department. Although no specific major is usually required for admission to law school, prelaw students can benefit greatly from the experience and analytical skills gained from the study of political science.

Psychology

Department of Psychology

School of Arts and Sciences

Neff Hall 388 ~ 260-481-6403 ~ www.ipfw.edu/psyc

The Department of Psychology offers a bachelor's degree in psychology. A minor in psychology is also offered for students in other bachelor's degree majors. Many courses are offered in the evenings, and students may attend full or part time.

An Associate of Arts with a concentration in psychology is described in the School of Arts and Sciences section of Part 3.

Honors Program in Psychology

A student may earn an honors degree in psychology by completing all of the requirements toward the B.A., achieving an overall GPA of 3.50 or higher, and conducting a two-semester independent research project. In the first semester of independent research the student is to complete three credits of PSY 498 or PSY 590. In the second semester, the student is to complete an honors thesis, PSY 499. As part of the honors thesis, an oral presentation to the department is required.

SBMS Undergraduate Student Affairs Center

SBMS Undergraduate Student Affairs Center

Richard T. Doermer School of Business and Management Sciences

Neff Hall 366 ~ 260-481-6472 ~ www.ipfw.edu/bms

Special Academic Regulations for P.B.A. Students

Performance Standards With the exception of the minimum GPA for retention, P.B.A. students are held to the performance standards specified for students in undergraduate business programs. See Business later in this part of the Bulletin.

Course Waivers

You may be eligible for waivers of course requirements based upon academic courses taken as part of your bachelor's program if those courses were completed within the past five calendar years.

Special Academic Regulations for Students in Undergraduate Business Programs

Following are the general policies and procedures for students enrolled in business undergraduate programs. In addition to the policies of IPFW (see Part 7), these are intended to maintain the historically high academic standards of undergraduate business programs at IPFW.

Regulations Applying to All Business Undergraduates

The Student's Responsibility.

You are responsible for satisfying the graduation requirements specified for your selected program. Thus, it is essential that you develop a thorough understanding of the required courses, academic policies, and procedures governing your academic career. All requests for exceptions to specific requirements must be made in writing and may be granted only by written approval from the appropriate chair or dean.

Academic Renewal Option.

The school participates in the Academic Renewal Option for eligible students returning to IPFW after an absence of five or more years. Information about this option appears in Part 7 of this Bulletin.

Maximum Enrollment.

The maximum number of credits for which you may enroll during a regular semester is 21. If you wish to enroll for more than 17 credits during a regular semester or more than 6 during a summer session, you must (1) have attained at least sophomore standing and (b) have earned a cumulative GPA of 3.00 or higher. If you qualify and desire to enroll for more than 17 credits during a semester, you must have your status verified and your request approved by your advisor.

Overlapping Courses.

You may not count toward graduation any courses or sequences considered to have overlapping content. A list of overlapping courses appears in Part 3 of this Bulletin under the School of Arts and Sciences.

Pass/Not-Pass Grades.

This option is available only for courses considered to be elective. You may take up to two courses each semester for a grade of P/NP with a maximum of two such courses each academic year (fall, spring, and summer). You may apply a maximum of 12 credits of pass/not-pass grades toward a bachelor's degree or a maximum of 6 credits toward an associate degree.

Credit by Self-Acquired Competency.

IPFW business programs do not award credit for self-acquired competency (experiential credit). Credit awarded on this basis, regardless of its sources, will not apply toward IPFW business degrees.

Academic Probation.

You are on academic probation upon completion of a semester or summer session in which you fail to earn a semester GPA of 2.00 or higher. Your university grade report will serve as notification of your probationary status.

Academic Dismissal.

You are dismissed from the degree program immediately upon completion of a semester or summer session that results in your cumulative GPA falling below 2.00. Dismissal will not necessarily be preceded by a formal warning, especially if your prior academic work does not indicate a critical situation. Upon verification of your ineligible status, you will be formally notified and given an adequate amount of time to withdraw from any classes for which you are ineligible. Following that, you will be administratively dropped from the specified class(es).

Application for the Degree.

At least two weeks before you register for the semester or summer session during which you will complete all requirements for your program, you must inform the school of your intention to graduate. Degree application forms and related instructions are available at the school's Undergraduate Student Affairs Center, Neff 366. Unless you have submitted a degree application by this deadline, your records will not be audited for graduation and you cannot register as a degree candidate.

Additional Regulation Applying to Undergraduates in the A.S.B. Program

Time Limit for Completion of A.S.B.

It is the school's intention that you possess the most current knowledge and skills when you complete the A.S.B. Because of this, you are allowed a maximum of eight regular semesters (four calendar years) to complete this degree. This begins with the semester you are regularly admitted to IPFW. If more than eight regular semesters have elapsed since your admission, you will be required to meet the degree requirements specified in the most current IPFW Bulletin.

Additional Regulations Applying to Undergraduates in the B.S.B. Program

Transfer Credit.

If you transfer from another school to IPFW, you will be granted credit toward a business degree only for courses considered to be equivalent to IPFW courses required in the business programs.

Generally, courses in basic business and economics subjects (freshman- and sophomore-level courses) will be accepted as equivalent only if they are being transferred from regionally accredited institutions.

Courses in advanced business and economics subjects that you have taken at another school during your freshman or sophomore years generally will not be accepted as equivalent to business or economics courses that are available to only juniors and seniors at IPFW. These may be used only as elective credit.

Courses in advanced business and economics subjects that you have taken as a junior or senior within the last four calendar years will be considered equivalent only if the business degree program from which they transfer is accredited by the International Association for Management Education (AACSB).

Requests for equivalency validation of 300/400-level business and economics courses will be considered only after you have been formally admitted to the B.S.B. program and you have provided the SBMS Student Affairs Center (Neff 366) with an official copy of your Indiana University credit-transfer report. Forms for requesting transfer-course equivalency are available at this location.

At least 50 percent of required business and economics credits must be completed at IPFW.

Correspondence Study.

No more than 6 credits earned through correspondence study will be counted toward your undergraduate degree. Business or economics courses taken by correspondence will not apply to undergraduate business degrees. You will not be permitted to enroll for credit in a correspondence-study course during any semester in which you are enrolled for 15 or more credits.

Credit by Examination.

Under very limited circumstances and subject to the following policies, you may be permitted to earn credit by means of a special examination:

1. Credit examinations are not provided for business or economics courses numbered 300 and above.
2. In all cases, your eligibility for a credit examination (for business courses numbered below 300); the type of examination; testing procedures, date, time, and location; and evaluation of your performance are the decision of the appropriate IPFW business or economics department. The decision of the department is final.
3. Credits earned by examination cannot exceed 10 percent of your total degree requirements.
4. You may attempt an authorized credit examination only once.
5. Only those examination scores that equate to a C grade or better will be considered. Only the grade S will be reported for credit earned by examination.

Use of Physical Education Credits.

You may use a maximum of 4 credits of physical education (HPER) courses as elective credits. Grades earned are included in your cumulative GPA.

Time Limit.

To ensure that you will be professionally competitive with other members of your graduating class, you may complete the degree requirements specified in the Bulletin in effect at the time you were formally admitted to the degree program only if

1. Progress toward your degree objective has been continuous. If you have not registered for degree-applicable courses as an IPFW business major for a period of one calendar year, you will be considered as not progressing toward your original degree objective. Subsequently, if you qualify for re-entry to an undergraduate business program at IPFW, you must satisfy the admission and degree requirements specified in the IPFW Bulletin that includes your year of re-entry.
2. No more than four years have elapsed since your admission to the business degree program. If more than four years have elapsed, your cumulative academic record will be reviewed by the appropriate business or economics department, and you will be required to meet the degree criteria specified in the current IPFW Bulletin. This may result in your having to repeat those courses in which the original content is determined to be outdated.

3. The necessary courses or degree programs are available. If the courses that were required at the time of your formal admission to the business degree program are no longer available, you must complete the current replacements for those courses. Should these newer courses require prerequisites you have not taken, you must also enroll for these prerequisites in the appropriate sequence.

Arts and Science Minors.

B.S.B. candidates are encouraged to complete the requirements for minors available through the IPFW School of Arts and Sciences (see Part 3). Completion of your minor will be documented on your official transcript. No more than two minors will be shown.

Sociology and Anthropology

Department of Sociology and Anthropology School of Arts and Sciences

Classroom-Medical Building 241 ~ 260-481-6842 ~ www.ipfw.edu/soca/soc.htm

Teacher Certification

You may be certified as a teacher of social studies after fulfilling all requirements for the B.A. with a major in sociology and all requirements for teacher certification. Full information on teacher certification requirements is available from the School of Education.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUC K201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

Theatre

Department of Theatre School of Visual and Performing Arts

Williams Theatre 128 ~ 260-481-6551 ~ www.ipfw.edu/vpa

Degree programs offered by the Department of Theatre provide comprehensive training for the theatre profession and explore theatre's 2,000-year history and literature. Through its programs, the department seeks to provide the finest in undergraduate education by providing a professional curriculum that embodies defined objectives and comprehensive performance/production training. Students study both content (dramatic literature, theory and criticism, and theatre history) and process (acting, directing, playwriting, designing, and production).

The department offers a Bachelor of Arts with a major in theatre or theatre teaching. Emphases are available in acting, design/technology, directing, and playwriting. An individually customized emphasis is also available.

Minors in theatre, dance, and theatre teaching are available to students who are interested in theatre, but are pursuing IPFW bachelor's degrees in other subjects.

Special Academic Regulations

Probation

You must earn a grade of C or better in each required theatre course and maintain a GPA of 2.5 or higher over all theatre courses you have completed. You are placed on academic probation if you do not meet this requirement.

Dismissal and Readmission

If you are on probation and do not correct academic deficiencies during your next semester of enrollment, you will be dismissed from the theatre program.

If you are dismissed from the theatre program, you may seek readmission under the university guidelines specified in Part 7 of this Bulletin.

Time Limit

You must complete the degree requirements specified in the Bulletin in effect at the time you were regularly admitted to the university. However, to ensure that you will be professionally competitive with other members of your graduating class, you may be required to satisfy the degree requirements specified in the most current Bulletin if you have not completed all requirements for your degree within seven years from the date of your admission.

Degree Requirements

You may not use a single course to fulfill more than one Department of Theatre requirement.

Department Handbook

Detailed information regarding requirements, policies, and practices of the department is included in a theatre student handbook available in the department office. All theatre majors must comply with the requirements specified in the handbook.

Theatre Teaching

Degree programs offered by the Department of Theatre provide comprehensive training for the theatre profession and explore theatre's 2,000-year history and literature. Through its programs, the department seeks to provide the finest in undergraduate education by providing a professional curriculum that embodies defined objectives and comprehensive performance/production training. Students study both content (dramatic literature, theory and criticism, and theatre history) and process (acting, directing, playwriting, designing, and production).

The department offers a Bachelor of Arts with a major in theatre or theatre teaching. Minors in both theatre and theatre teaching are available to students who are interested in theatre or preparing to teach at the secondary-school level, but who are pursuing IPFW bachelor's degrees in other subjects.

Special Academic Regulations

Probation and Dismissal

You must earn a grade of C or better in each required theatre course and maintain a GPA of 2.5 or higher over all theatre courses you have completed. You are placed on academic probation if you do not meet this requirement.

If you are on probation and do not correct academic deficiencies during your next semester of enrollment, you will be dismissed from the theatre program.

Readmission

If you are dismissed from the theatre program, you may seek readmission under the university guidelines specified in Part 7 of this Bulletin.

Degree Requirements

You may not use a single course to fulfill more than one Department of Theatre requirement.

Time Limit

You must complete the degree requirements specified in the Bulletin in effect at the time you were regularly admitted to the university. However, to ensure that you will be professionally competitive with other members of your graduating class, you may be required to satisfy the degree requirements specified in the most current Bulletin if you have not completed all requirements for your degree within seven years from the date of your admission.

Departmental Handbook

Detailed information regarding policies and practices of the department is included in a theatre student handbook available in the department office.

Visual Arts/Fine Arts Program

Department of Visual Arts/Fine Arts Program **School of Visual and Performing Arts**

Visual Arts Building 117 ~ 260-481-6705 ~ www.ipfw.edu/vpa/

The mission of the Department of Visual Arts is to educate its students and the community in fine art. Degrees offered by the Fine Arts Program are a Bachelor of Arts, a Bachelor of Fine Arts, a Bachelor of Arts in art education, and a fine arts minor. A minor in art history is described elsewhere in this part of the *Bulletin*.

Transfer Credit

All studio art and art history courses transferred from another institution or campus must be evaluated by an appropriate faculty member in the fine arts program before they may be applied to the B.A.

Residence Requirements

At least 33 credit hours including art methods courses must be completed on the IPFW campus.

Special Academic Regulations

Enrollment Policy To ensure that degree-seeking students are guaranteed priority registration in their classes, the following policies will be observed:

1. Students who are not progressing toward completion of degree requirements, including students who have graduated but wish to continue a program of study, will be reclassified as nondegree-seeking. These students' registrations will not be processed until the final week before the beginning of each semester. This policy will allow these students an opportunity to avail themselves of classroom opportunities when space is available.
2. All 400-level studio courses may be repeated up to a maximum of 18 credits. This long-standing policy is based upon the rationale that six semesters of study at that level in one discipline is sufficient for undergraduate training.
3. Independent-study courses are available for students with at least junior standing to pursue studio interests not served in other course offerings. Independent-study courses may be arranged with the appropriate faculty member on the basis of a viable course of study, a reasonable load for the instructor, and space availability. Priority will be given to degree-seeking students and to classes with regularly scheduled meetings.
4. Prerequisites for 200-level studio courses may be waived by the appropriate instructor during the week before classes begin, contingent upon space availability. Completion of all prerequisites is required to continue with classes beyond 6 credits in that discipline.

Credit Transfer If you transfer art credits from another college or university, you may be admitted to the B.F.A. or foundation program upon a successful portfolio presentation. To earn the B.F.A. at IPFW, you must fulfill all remaining requirements and complete a minimum of 24 credits of upper-division studio work at IPFW.

Time Limit If you do not complete degree requirements within seven years of matriculation, you may be required to meet the degree requirements specified in the current *Bulletin*.

Student Handbook A departmental student handbook, consisting of policies and regulations of the Department of Visual Arts, has been prepared as a guide for students. This handbook, available in the department office, provides detailed information about responsibilities and a sample curriculum for each degree. All fine arts majors are expected to be familiar with the contents of this handbook.

Bachelor of Fine Arts

Recommendations

Students should schedule classes within the B.F.A. program under the guidance of a visual arts advisor.

Residence Requirements

For a bachelor's degree, registration in and completion of at least 33 credits of resident course credit at the 200 level or above, including at least 15 credits at the 300 level or above, in courses applicable to the major.

Transferred Credit

All studio art and art history courses transferred from another institution or campus must be evaluated by an appropriate faculty member in the Fine Arts Program before they may be applied to a major in fine arts. See Transfer Credit Review.

Transfer Credit Review

Courses in studio art that have been transferred to IPFW from another institution or campus are not counted as part of the fine arts major unless they have been reviewed by the fine arts faculty. For a review of transferred studio credit, the student should

provide the reviewer with a portfolio consisting of representative work in each area (e.g., painting, sculpture, etc.) for which transfer credit is desired. The portfolio should include both studies and finished work and be as complete as possible.

Minor in Fine Arts

Resident Requirements

Completion of at least 6 resident credits at the 200 level or above is required for the minor.

Special Academic Regulations

Enrollment Policy To ensure that degree-seeking students are guaranteed priority registration in their classes, the following policies will be observed:

1. Students who are not progressing toward completion of degree requirements, including students who have graduated but wish to continue a program of study, will be reclassified as nondegree-seeking. These students' registrations will not be processed until the final week before the beginning of each semester. This policy will allow these students an opportunity to avail themselves of classroom opportunities when space is available.
2. All 400-level studio courses may be repeated up to a maximum of 18 credits. This long-standing policy is based upon the rationale that six semesters of study at that level in one discipline is sufficient for undergraduate training.
3. Independent-study courses are available for students with at least junior standing to pursue studio interests not served in other course offerings. Independent-study courses may be arranged with the appropriate faculty member on the basis of a viable course of study, a reasonable load for the instructor, and space availability. Priority will be given to degree-seeking students and to classes with regularly scheduled meetings.
4. Prerequisites for 200-level studio courses may be waived by the appropriate instructor during the week before classes begin, contingent upon space availability. Completion of all prerequisites is required to continue with classes beyond 6 credits in that discipline.

Credit Transfer If you transfer art credits from another college or university, you may be admitted to the B.F.A. or foundation program upon a successful portfolio presentation. To earn the B.F.A. at IPFW, you must fulfill all remaining requirements and complete a minimum of 24 credits of upper-division studio work at IPFW.

Time Limit If you do not complete degree requirements within seven years of matriculation, you may be required to meet the degree requirements specified in the current Bulletin.

Student Handbook A departmental student handbook, consisting of policies and regulations of the Department of Visual Arts, has been prepared as a guide for students. This handbook, available in the department office, provides detailed information about responsibilities and a sample curriculum for each degree. All fine arts majors are expected to be familiar with the contents of this handbook.

Visual Arts/Visual Communication and Design Program

Department of Visual Arts, VCD Program

School of Visual and Performing Arts

The mission of the Department of Visual Arts is to educate its students and the community in art, design, and appropriate technologies. Students may pursue the Bachelor of Fine Arts with concentrations in computer art, graphic design, and photography. A two-year program of study, an Associate of Science in commercial art, is also offered.

Both the B.F.A. and A.S. programs include general education, art/design history, and visual communication and design courses.

Special Academic Regulations

To ensure that degree-seeking students are guaranteed priority registration in their classes, the following policies will be observed:

1. Students who are not progressing toward completion of degree requirements, including students who have graduated but wish to continue a program of study, will be reclassified as nondegree-seeking. These students' registrations will not be processed until the final week before the beginning of each semester. This policy will allow these students an opportunity to avail themselves of classroom opportunities when space is available.
2. All 400-level studio courses may be repeated up to a maximum of 18 credits. This long-standing policy is based upon the rationale that six semesters of study at that level in one discipline is sufficient for undergraduate training.
3. Independent-study courses are available for students with at least junior standing to pursue studio interests not served in other course offerings. Independent-study courses may be arranged with the appropriate faculty member on the basis of a viable course of study, a reasonable load for the instructor, and space availability. Priority will be given to degree-seeking students and to classes with regularly scheduled meetings.
4. Prerequisites for 200-level and above studio courses may be waived by the appropriate instructor during the week before classes begin, contingent upon space availability.
5. Internships are available for students with at least junior standing to pursue learning opportunities in professional situations. Students may receive up to 6 credit hours for such experiential learning. Documentation concerning internship requirements can be found in the Department of Visual Arts office.

Credit Transfer

If a student transfers studio credits from another college or university, he/she may be admitted to the B.F.A. program upon successful portfolio presentation. To earn the B.F.A. at IPFW, the student must fulfill all remaining requirements and complete a minimum of 24 credits of upper-division studio work at IPFW.

Time Limit

If a student does not complete degree requirements within seven years of matriculation, he/she may be required to meet the degree requirements specified in the current Bulletin.

Student Handbook

A departmental student handbook, consisting of policies and regulations of the Department of Visual Arts, has been prepared as a guide for students. This handbook, available in the department office, provides detailed information about responsibilities and a sample curriculum for each degree. All VCD majors are expected to be familiar with the contents of this handbook.

Academic Programs

Area (General Education) Requirements

Area I: Linguistic and Numerical Foundations

Reading/Writing (3 credits)

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Listening/Speaking (3 credits)

- COM 114 - Fundamentals of Speech Communication Cr. 3.

Quantitative Reasoning (3 credits)

- MA 151 - Algebra and Trigonometry
- MA 101 - Mathematics for Elementary Teachers I Cr. 3.
- MA 149 - Basic and College Algebra Cr. 5.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- POLS Y395 - Quantitative Political Analysis Cr. 3.
- SPEA K300 - Statistical Techniques Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II: Natural and Physical Sciences

Course List:

- AST A105 - Stellar Astronomy
- AST L105 - Stellar Astronomy Laboratory
(1 credit)
- ANTH B200 - Bioanthropology Cr. 3.
- AST A100 - The Solar System Cr. 3.
- AST L100 - Solar System Laboratory Cr. 1.
(1 credit)
- BIOL 100 - Introduction to the Biological World Cr. 3.
- BIOL 250 - Women and Biology Cr. 3.
- BIOL 327 - Biology of Aging Cr. 3.

- CHM 104 - Living Chemistry Cr. 3.
- CHM 111 - General Chemistry Cr. 3.
- GEOG G107 - Physical Systems of the Environment Cr. 3.
- GEOG G109 - Weather and Climate Cr. 3.
- GEOL G100 - General Geology Cr. 3-5.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G210 - Oceanography Cr. 3.
- GEOL L100 - General Geology Laboratory Cr. 1-2.
(1 credit)
- IDIS G102 - Freshman Seminar/Physical and Natural World Cr. 3.
- PHYS 105 - Sound and Music Cr. 3.
- PHYS 115 - Introduction to Lasers Cr. 3.
- PHYS 120 - Physics of Sports Cr. 3.
- PHYS 125 - Light and Color Cr. 3.
- PHYS 127 - Physics for Computer Graphics and Animation Cr. 3.
- PHYS 131 - Concepts in Physics I Cr. 3.
- PHYS 132 - Concepts in Physics II Cr. 3.
- PHYS 135 - The First Three Minutes Cr. 3.
- PHYS 136 - Chaos and Fractals Cr. 3.
- PHYS 210 - The Nature of Physical Science I Cr. 3.

Area III: The Individual, Culture, and Society

Course List:

- AFRO A210 - The Black Woman in America Cr. 3.
- ANTH E105 - Culture and Society Cr. 3.
- ANTH L200 - Language and Culture Cr. 3.
- ANTH P200 - Introduction to Prehistoric Archaeology Cr. 3.
- BUS W100 - Principles of Business Administration Cr. 3.
- CDFS 255 - Introduction to Couple and Family Relationships Cr. 3.
- COM 250 - Mass Communication and Society Cr. 3.
- COM 303 - Intercultural Communication Cr. 3.
- ECON E200 - Fundamentals of Economics Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.
- ENG L364 - Native American Literature Cr. 3.
- FOLK F101 - Introduction to Folklore Cr. 3.
- FOLK F111 - Introduction to World Folk Music Cr. 3.
- GERN G231 - Introduction to Gerontology Cr. 3.
- HIST H105 - American History I Cr. 3.
- HIST H106 - American History II Cr. 3.
- HIST H113 - History of Western Civilization I Cr. 3.
- HIST H114 - History of Western Civilization II Cr. 3.
- HIST H232 - The World in the 20th Century Cr. 3.

- HSRV 350 - Drugs and Society Cr. 3.
- IDIS G103 - Freshman Seminar/The Individual, Culture, and Society Cr. 3.
- IET 105 - Industrial Management Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.
- JOUR J110 - Foundations of Journalism and Mass Communication Cr. 3.
- LING L103 - Introduction to the Study of Language Cr. 3.
- NUR 309 - Transcultural Healthcare Cr. 3.
- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 268 - Elements of Law Cr. 3.
- PACS P200 - Introduction to Peace and Conflict Studies - Humanities Perspectives Cr. 3.
- POLS S103 - Introduction to American Politics - Honors Cr. 3.
- POLS S211 - Introduction to Law - Honors Cr. 3.
- POLS Y103 - Introduction to American Politics Cr. 3.
- POLS Y105 - Introduction to Political Theory Cr. 3.
- POLS Y107 - Introduction to Comparative Politics Cr. 3.
- POLS Y109 - Introduction to International Relations Cr. 3.
- POLS Y211 - Introduction to Law Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.
- PSY 120H - Elementary Psychology - Honors Cr. 3.
- PSY 225 - Stereotyping and Prejudice Cr. 3.
- PSY 240 - Introduction to Social Psychology Cr. 3.
- PSY 350 - Abnormal Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.
- SOC S163 - Social Problems Cr. 3.
- SPEA E162 - Environment and People Cr. 3.
- SPEA H120 - Contemporary Health Issues Cr. 1-3.
- SPEA J101 - The American Criminal Justice System Cr. 3.
- SPEA V170 - Introduction to Public Affairs Cr. 3.

Area IV: Humanistic Thought

Course List:

- CLAS C205 - Classical Mythology Cr. 3.
- CMLT C217 - Detective and Mystery Literature Cr. 3.
- COM 251 - Introduction to the Electronic Mass Media Cr. 3.
- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.
- ENG L108 - Introduction to Contemporary Literature Cr. 3.
- ENG L150 - Representative American Writers Cr. 3.
- ENG L250 - American Literature Before 1865 Cr. 3.
- ENG L251 - American Literature Since 1865 Cr. 3.
- ENG L301 - Critical and Historical Survey of English Literature I Cr. 3.
- ENG L302 - Critical and Historical Survey of English Literature II Cr. 3.

- FILM K101 - Introduction to Film Cr. 3.
- FINA A170 - Women Artists/The Visual Arts Cr. 3.
- FINA H101 - Art Appreciation Cr. 3.
- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.
- FINA H401 - Art Theory IV Cr. 3.
- FINA H415 - Art of Pre-Columbian America Cr. 3.
- FOLK F254 - Social History of Rock and Roll Cr. 3.
Because of significant overlapping content, students may count either FOLK F254 or MUS Z201 toward the Area IV requirement, but not both.
- FREN F310 - Topics in French Literature in Translation Cr. 3.
- FWAS 201 - Humanities I: The Ancient World Cr. 3.
- FWAS 202 - Humanities II: Foundations of the Modern Western World Cr. 3.
- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.
- HON H101 - Ideas and Human Experience Cr. 1-3.
- IDIS G104 - Freshman Seminar/ Humanistic Thought Cr. 3.
- INTL I208 - International Cinema Cr. 3.
with topic "Contemporary European Culture in Film"
- INTR 220 - Architecture and Urban Form Cr. 3.
- INTR 320 - Architecture and Urban Form in the Modern World Cr. 3.
- INTR 330 - Culture and Design: A Cross-Culture Comparison of Architecture Cr. 3
- MUS N101 - Music for the Listener - Honors Cr. 3.
- MUS Z101 - Music for the Listener Cr. 3.
- MUS Z105 - Traditions in World Music Cr. 3.
- MUS Z201 - History of Rock and Roll Music Cr. 3.
Because of significant overlapping content, students may count either FOLK F254 or MUS Z201 toward the Area IV requirement, but not both.
- MUS Z393 - History of Jazz Cr. 3.
- PHIL 110 - Introduction to Philosophy Cr. 3.
- PHIL 111 - Ethics Cr. 3.
- PHIL 112 - Religion and Culture Cr. 3.
- PHIL 120 - Critical Thinking Cr. 3.
- PHIL 150 - Principles of Logic Cr. 3.
- PHIL 312 - Medical Ethics Cr. 3.
- REL 301 - Islam Cr. 3
- THTR 201 - Theatre Appreciation Cr. 3.

Area V: Creative and Artistic Expression

Course List:

- VCD S105 - Introduction to Design
- ENG W103 - Introductory Creative Writing Cr. 3.
- ENG W203 - Creative Writing Cr. 3.

- ENGR 120 - Graphical Communications and Spatial Analysis Cr. 2.
- FINA N108 - Introduction to Drawing for Nonmajors Cr. 3.
- FINA S105 - Introduction to Design Cr. 3.
- FINA S165 - Ceramics for Nonmajors Cr. 3.
- JOUR J210 - Visual Communication Cr. 3.
- MUS L153 - Introduction to Music Therapy Cr. 3.
- MUS Z140 - Introduction to Musical Expression Cr. 3.
- THTR 117 - Jazz Dance I Cr. 2.
(2 credits)
- THTR 121 - Tap I Cr. 2.
(2 credits)
- THTR 125 - Ballet I Cr. 2.
- THTR 134 - Fundamentals of Performance Cr. 3.
- VCD N274 - Digital Imaging Cr. 3.

Area VI: Inquiry and Analysis

All inquiry and analysis courses have a prerequisite of "Completion of foundation skills requirement." Some courses may also have specific prerequisites. Inquiry and Analysis courses are not open to students with freshman status.

Course List:

- HIST H373 - History of Science and Technology I
- ANTH E335 - Ancient Civilizations of Mesoamerica Cr. 3.
- ANTH P370 - Ancient Cultures of South America Cr. 3.
- BIOL 304 - Major Ideas in Biology Cr. 3.
- BIOL 317 - Addictions: Biology, Psychology, and Society Cr. 3.
- BIOL 326 - Heredity: A Human Perspective Cr. 3.
- BIOL 349 - Environmental Science Cr. 3.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CMLT C333 - Romanticism Cr. 3.
- CMLT C337 - The 20th Century: Tradition and Change Cr. 3.
- COM 316 - Controversy in American Society Cr. 3.
- CS 306 - Computers in Society Cr. 3.
- ECON E306 - Undergraduate Seminar in Economics Cr. 3
- ECON E340 - Introduction to Labor Economics Cr. 3.
- ECON E346 - Economics of Gender Cr. 3.
- EDUC E346 - Discipline/Parenting for Young Children Cr. 3.
- EDUC K410 - Trends and Issues in Special Education Cr. 3.
- ENG L399 - Junior Honors Seminar Cr. 3.
- ENG W421 - Technical Writing Projects Cr. 1-3.
- FILM K390 - The Film and Society Cr. 3.
- FOLK F305 - Asian Folklore Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.
- GEOL G305 - Geologic Fundamentals in Earth Science Cr. 3-5.
- HIST A313 - Origins of Modern America Cr. 3.

- HIST D426 - History of Balkans: 1914 to Present Cr. 3.
- HON H300 - Interdepartmental Colloquium Cr. 1-3.
- HON H302 - Interdepartmental Colloquium Cr. 1-3.
- LING L303 - Introduction to Linguistic Analysis Cr. 3.
- LING L360 - Language in Society Cr. 3.
- MA 314 - Introduction to Mathematical Modeling Cr. 3.
- MUS L418 - Psychology of Music Cr. 3.
- MUS U410 - Creative Arts, Health, and Wellness Cr. 3.
- NUR 339 - Research in Healthcare Cr. 3.
- OLS 454 - Gender and Diversity in Management Cr. 3.
- OLS 486 - Leadership: Management of Change Cr. 3.
- PHIL 303 - History of Modern Philosophy Cr. 3.
- PHIL 304 - 19th Century Philosophy Cr. 3.
- PHYS 302 - Puzzles, Strategy Games, and Problem Solving in the Physical Sciences Cr. 3.
- PHYS 315 - Lasers in Art and Science Cr. 3.
- PHYS 325 - Scientific Computing Cr. 3.
- PHYS 326 - Physics for Computer Graphics and Animation II Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- POLS S401 - Studies in Political Science Cr. 3.
- POLS Y306 - State Politics in the United States Cr. 3.
- POLS Y307 - Indiana State Government and Politics Cr. 3.
- POLS Y335 - Western European Politics Cr. 3.
- POLS Y339 - Middle Eastern Politics Cr. 3.
- POLS Y340 - East European Politics Cr. 3.
- POLS Y350 - Politics of the European Union Cr. 3.
- POLS Y376 - International Political Economy Cr. 3.
- POLS Y401 - Studies in Political Science Cr. 3.
- POLS Y490 - Senior Seminar in Political Science Cr. 3.
- PSY 317 - Addictions: Biology, Psychology and Society Cr. 3.
- PSY 334 - Cross Cultural Psychology Cr. 3.
- PSY 345 - Psychology of Women Cr. 3.
- PSY 353 - Social and Personality Development in Children Cr. 3.
- PSY 362 - Human Development II: Adolescence Cr. 3.
- PSY 365 - Development of Gender Roles in Children Cr. 3.
- PSY 367 - Adult Development and Aging Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.
- PSY 371 - Death and Dying Cr. 3.
- PSY 381 - Psychology and Law Cr. 3.
- PSY 444 - Human Sexual Behavior Cr. 3.
- PSY 460 - Advanced Abnormal Psychology Cr. 3.
- SOC S309 - The Community Cr. 3.
- SOC S314 - Social Aspects of Health and Medicine Cr. 3.
- SOC S315 - Work and Occupations Cr. 3.
- SOC S316 - The Family Cr. 3.
- SOC S320 - Deviant Behavior and Social Control Cr. 3.
- SOC S325 - Criminology Cr. 3.
- SOC S328 - Juvenile Delinquency Cr. 3.
- SOC S360 - Topics in Social Policy Cr. 3.

- SPEA E400 - Topics in Environmental Studies Cr. 3.
- SPEA H371 - Human Resource Management in Healthcare Facilities Cr. 3.
- SPEA H422 - The Social Epidemics: AIDS, Violence, and Substance Abuse Cr. 3.
- SPEA V348 - Management Science Cr. 3.
- SPEA V371 - Financing Public Affairs Cr. 3.
- SPEA V373 - Human Resources Management in the Public Sector Cr. 3.
- SPEA V450 - Contemporary Issues in Public Affairs - Honors Cr. 1-3.
- STAT 340 - Elementary Statistical Methods II Cr. 3.
- THTR 470 - Theatre and Society I Cr. 3.
- THTR 471 - Theatre and Society II Cr. 3.
- WOST W301 - International Perspectives on Women Cr. 3.

Associate

Architectural Engineering Technology (A.S.)

Program: A.S.

Department of Civil and Architectural Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 229 ~ 260-481-6797 ~ www.caet.ipfw.edu

Mission

To provide employers and the public of northeast Indiana with educated, technologically equipped graduates, able to serve the varied construction industries (represented by architectural, civil, and construction engineering technologies, and interior design) in advancing the solutions to problems facing the public and private sector.

Goals

- To provide education of the traditional and returning adult student for career success in the construction industry
- To develop a respect for diversity and a knowledge of contemporary professional, societal, and global issues with an understanding of professional and ethical responsibilities.
- To be responsive to the ever-changing technologies of the construction industries.
- To instill in students the desire for and ability to engage in lifelong learning.

The breadth of the curriculum will provide leadership potential in addressing problems of the region, its people, and its industries.

This program helps you prepare for technical employment with architects, engineers, builders, materials suppliers, and related government agencies. You may work in drafting, architectural detailing, construction expediting, estimating, or sales. Graduates with experience hold jobs as senior drafting personnel, architectural job captains, construction supervisors, and contractors. This

program also prepares you to work toward a bachelor's degree in construction engineering technology. The architectural engineering technology program is not a professional architecture program and will not lead to licensure as a registered architect.

The department offers related majors in civil engineering technology and construction engineering technology. All three programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, 410-347-770. The programs provide problemsolving skills, hands-on competency, and required state-of-the-art technical knowledge. Alumni of the department are employed in all areas of the building industry, including construction; architecture; interior design; civil engineering; land surveying; and state, county, and city governments.

To earn the A.S. with a major in architectural engineering technology, you must fulfill the requirements of IPFW (see Part 7); the College of Engineering, Technology, and Computer Science (see Part 3); and those described below:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations Credits: 11

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 159 - Precalculus Cr. 5.

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 3

- INTR 220 - Architecture and Urban Form Cr. 3.

ETCS General Distribution Requirements Credits: 11

- PHYS 218 - General Physics Cr. 4.
- PHYS 219 - General Physics II Cr. 4.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Core and Concentration (Major) Courses Credits: 40

- ARET 123 - Construction Graphic Communication Cr. 3.
- ARET 124 - Architectural Engineering Construction I Cr. 3.
- ARET 167 - Construction Systems and Materials Cr. 3.
- ARET 222 - Architectural Engineering Construction II Cr. 3.
- ARET 281 - Environmental Equipment for Buildings I Cr. 3.
- ARET 282 - Environmental Equipment for Buildings II Cr. 3.
- CET 104 - Elementary Surveying Cr. 3.

- CET 181 - Applied Structures I Cr. 3.
- CET 266 - Materials Testing Cr. 3.
- CET 283 - Applied Structures II Cr. 3.
- CNET 276 - Specs, Contracts, and Codes Cr. 3.
- CNET 280 - Quantity Estimating Cr. 3.
- INTR 121 - Freehand Sketching Cr. 3.

Total Credits: 68

Biology Concentration (A.A.)

Program: Concentration A.A.

Department of Biology

School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

In addition to the courses listed below, you must complete MA 153 or 229 for your IPFW General Education course in Quantitative Reasoning and BIOL 117 and CHM 115 (4 credits each) from IPFW General Education Area II. Your electives must include CS 107 or STAT 240 and a two-semester, 8-credit sequence in organic chemistry. If you plan to continue for a bachelor's degree, see Part 4 for B.S. requirements in biology, biology teaching, and medical technology.

Program Requirements

- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- CHM 116 - General Chemistry Cr. 4.

One of the following:

- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 219 - Principles of Functional Biology Cr. 3.

Business (A.S.B.)

Program: A.S.B.
SBMS Undergraduate Student Affairs Center
Richard T. Doermer School of Business and Management Sciences

Neff Hall 366 ~ 260-481-6472 ~ www.ipfw.edu/bms

Business Administration

The A.S.B. option in business administration is a preprofessional degree. The academic program leading toward the degree helps you prepare for careers at the operational level of business.

Admission

Freshman students are not eligible for direct admission to this program. If you satisfy IPFW admission requirements (see Part 7), you will be assigned to Academic Counseling and Career Services (Kettler 110E, 481-6814) until you have satisfactorily completed the first 30 credits toward this degree with a cumulative GPA of 2.00 or higher. Developmental courses (e.g., ENG R150 and W130; MA 109, 111, and 113) do not count toward these 30 credits.

All credits earned in the business administration option can be applied toward the Bachelor of Science in Business if you qualify for admission to that program.

Degree Requirements

You must satisfy the requirements of IPFW (see Part 7) and the Richard T. Doermer School of Business and Management Sciences (listed in this section) and earn a minimum of 63 credits in courses in (1) general education and (2) general business and economics. The final 15 consecutive credits required for this degree must be completed after you have been admitted to the A.S. program.

To remain in the program and graduate, you must earn a grade of C or better in all ENG writing courses and all business and economics courses, and maintain a cumulative GPA of 2.00 or better. Business and economics courses completed by correspondence are not applicable.

IPFW General Education Requirements (41 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

The following courses are required for admission to the business administration option program.

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
(or an approved substitute with placement beyond MA 153)

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

The following courses are required for admission to the business administration option program.

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Area IV—Humanistic Thought Credits: 6

- Additional credits in Area IV: 3
- PHIL 111 - Ethics Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Additional General Education Credits: 12

Business and Economics Requirements (22 credits)

- BUS A201 - Principles of Financial Accounting Cr. 3.
- BUS A202 - Principles of Managerial Accounting Cr. 3.
- BUS K211 - Spreadsheets for Business Cr. 1.
- BUS K212 - Introduction to Database Management Cr. 1.
- BUS K213 - Internet Literacy for Business Cr. 1.
- BUS L200 - Elements of Business Law Cr. 1.
- BUS W204 - Social, Legal, and Ethical Implications of Business Decisions Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.

Note

As the requirements for the Bachelor of Science in Business change, the requirements for the A.S.B. option in business administration are also likely to change in order to ensure that the credits in this option can be applied toward the B.S.B.

Total Credits: 63

Chemical Methods (A.S.)

Program: A.S.

Department of Chemistry

School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

The Associate of Science with a major in chemical methods program helps you prepare for a career as a chemical technician. Many industries have found it desirable to employ persons with a basic knowledge of chemistry. Such industries may be concerned with implementing or monitoring safe waste-disposal procedures, conducting standardized testing that uses routine chemical procedures, observing and measuring properties of materials following some type of compounding procedure, or recording data and making calculations that require some knowledge of chemistry. The A.S. with the major in chemical methods is a technical degree designed to meet such needs and is not recommended for students who wish to pursue a bachelor's program.

To earn the A.S. with a major in chemical methods, you must fulfill the requirements of IPFW (see Part 7) and complete the following courses. In addition, you must earn a grade of C or higher for each of the chemistry core courses.

Chemistry Core

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.

Supporting Courses

- Credits in computer science Credits: 3–4
- MA 151 Algebra and Trigonometry Credits: 5
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
- PHYS 218 - General Physics Cr. 4.
- PHYS 219 - General Physics II Cr. 4.

Electives Credits: 12–13

Total Credits: 61–63

Civil Engineering Technology (A.S.)

Program: A.S.

Department of Civil and Architectural Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 229 ~ 260-481-6797 ~ www.caet.ipfw.edu

To earn the A.S. with a major in civil engineering technology, you must fulfill the requirements of IPFW (see Part 7); the College of Engineering, Technology, and Computer Science (see Part 3); and those described below:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations Credits: 11

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 159 - Precalculus Cr. 5.

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

ETCS General Distribution Requirements (11 credits)

- PHYS 218 - General Physics Cr. 4.
- PHYS 219 - General Physics II Cr. 4.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Core and Concentration (Major) Courses (40 credits)

- ARET 123 - Construction Graphic Communication Cr. 3.

- ARET 124 - Architectural Engineering Construction I Cr. 3.
- ARET 167 - Construction Systems and Materials Cr. 3.
- CET 104 - Elementary Surveying Cr. 3.
- CET 108 - Route Surveying and Design Cr. 3.
- CET 181 - Applied Structures I Cr. 3.
- CET 206 - Construction Surveying Cr. 3.
- CET 209 - Land Surveying and Subdivision Cr. 3.
- CET 253 - Hydraulics and Drainage Cr. 3.
- CET 266 - Materials Testing Cr. 3.
- CNET 276 - Specs, Contracts, and Codes Cr. 3.
- CNET 280 - Quantity Estimating Cr. 3.

Total Credits: 68

Commercial Art (A.S.)

Program: A.S. in Commercial Art

Department of Visual Arts/Visual Communication and Design Program

School of Visual and Performing Arts

Visual Arts Building 213 ~ 260-481-6709 ~ www.ipfw.edu/vpa

This two-year program helps an individual prepare for entry-level employment opportunities in the applied arts, including illustration, layout, package design, display/exhibit design, and computer imaging. An exit portfolio review is required of all A.S. degree-seeking students. Upon completion of the A.S. program and a successful portfolio presentation, a student may choose to enter the B.F.A. program in computer art, graphic design, or photography.

To earn the A.S. in commercial art, students must fulfill the requirements of IPFW and the School of Visual and Performing Arts, complete curriculum requirements, and earn a grade of C or better in each required VCD course.

IPFW General Education Requirements Credits: 18

Area I—Linguistic and Numerical Foundations

See Part 2 General Education Requirements for approved courses

- *Quantitative reasoning course Credits: 3*
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.

Areas II–IV Credits: 9

See Part 2 General Education Requirements for approved courses

Foundations Credits: 12

- FINA P121 - Drawing Fundamentals I-II Cr. 3.
- FINA P122 - Drawing Fundamentals I-II Cr. 3.
- FINA P151 - Design Fundamentals I-II Cr. 3.
- FINA P152 - Design Fundamentals I-II Cr. 3.

Art History Credits: 6

- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.

Studio Credits: 27

- Studio electives in VCD or FINA Credits: 6
- FINA P226 - Painting Fundamentals II Credits: 3
- VCD P253 - Principles of Graphic Design I Cr. 3.
- VCD P254 - Principles of Graphic Design II Cr. 3.
- VCD P261 - Layout and Finished Art Cr. 3.
- VCD P271 - Illustration I Cr. 3.
- VCD P272 - Illustration II Cr. 3.
- VCD P273 - Computer Art and Design I Cr. 3.

Total Credits: 63

Computer Science (A.S.)

Program: A.S.

Department of Computer Science

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 125 ~ 260-481-6803 ~ www.cs.ipfw.edu

The A.S. program includes fundamental computing courses. All requirements may be applied to the B.S. program in computer science. Graduates typically continue in the B.S. program even though associate-degree recipients are qualified for employment in the computer field.

To earn the A.S. with a major in computer science, you must fulfill the requirements of IPFW (see Part 7) in addition to completing the courses listed below. Only grades of C or better in computer science courses may be applied to the degree or used to satisfy prerequisites. A maximum of 10 credits of D grades will be accepted in other courses.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
(or equivalent)

Major Requirements (20 credits)

- Credits in approved computer science courses at the 200 level or above except CS 306 Credits: 3
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- CS 271 - Computer Architecture Cr. 3.
- CS 274 - Data Communications Cr. 3.

Supporting Courses

- Credits in approved electives Credits: 14–16
- ENG W234 - Technical Report Writing Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.

Approved Laboratory Science sequence from the following Credits: 8-10

- BIOL 108 - Biology of Plants Cr. 4.
- BIOL 109 - Biology of Animals Cr. 4.
- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.

- GEOL G211 - Introduction to Paleobiology Cr. 3.
- PHYS 201 - General Physics I Cr. 5.
- PHYS 202 - General Physics II Cr. 5.
- PHYS 220 - General Physics Cr. 4.
- PHYS 221 - General Physics Cr. 4.

And Select From:

- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.

Free Electives

- Credits in approved free electives sufficient to bring total to 64.

Total Credits: 64

Dental Hygiene (A.S.)

Program: A.S. in Dental Hygiene **Department of Dental Education** **School of Health Sciences**

Neff Hall 150 ~ 260-481-6837

This program involves one year of prerequisite courses and two years of dental hygiene courses. The program offers a full-time curriculum that is accredited by the Commission on Dental Accreditation of the American Dental Association.

An A.S. in Dental Hygiene prepares the student for a career as a dental-health professional who specializes in educational, preventive, and therapeutic oral healthcare. The program combines didactic, laboratory, and clinical courses. Graduates are eligible to take national, state, and regional licensing examinations. Dental hygienists who graduate with an associate degree can work in private dental offices, dental clinics and hospitals, public health facilities, and dental research facilities.

Admission

Admission to IPFW does not confer admission to this program. To be admitted to the A.S. program, the student must apply separately to IPFW and the dental hygiene program. Prospective dental hygiene students must first complete the prerequisite courses listed below or equivalent courses at another accredited college or university. These courses may not be graded on a pass/not-pass option. Remedial or developmental courses cannot be used to fulfill these prerequisite requirements. Students must maintain a GPA of 3.0 or higher. Because space in the dental hygiene program is limited, admission is competitive and an overall GPA of at least 3.50 or higher is recommended. Applications for selection into the dental hygiene program must be received no

later than Feb. 1 of the year an applicant wishes to enter the program. The number of eligible applicants each year exceeds the number of spaces available.

Prerequisite Courses

To apply for the A.S. in dental hygiene program, you must complete the following prerequisite courses by June 1 with a grade of C or better:

Prerequisite courses must be completed by June 1 for admission into the class that begins each fall. A minimum prerequisite GPA of 3.0 is required for all applicants. Required courses may be repeated only once to improve the grade. The second grade for any course will be averaged with the first grade given for each course. Microbiology, human anatomy, and human physiology constitute a large portion of the Dental Hygiene National Board Examination each year. Therefore, credits in these three courses must be completed within five years of admission into the program. Credits in English composition, speech, psychology, sociology, and chemistry will be accepted for 10 years. Outdated courses must be retaken.

In addition, the only Advanced Placement (AP) courses accepted are English and psychology, if AP scores are 4 or higher. Transfer courses accepted by IPFW as “undistributed” must be evaluated by the department before they are accepted as prerequisite courses for dental hygiene.

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- CHM 111 - General Chemistry Cr. 3.
- CHM 112 - General Chemistry Cr. 3.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- NUR 106 - Medical Terminology Cr. 3.
(Recommended course, but not mandatory)
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Total Credits: 26-29

Program Requirements

After acceptance into the program, you must fulfill the requirements of IPFW (see Part 7) and Dental Education, and satisfactorily complete the following courses:

- DHYG H204 - Introduction to Periodontics I Credits: 1
- DHYG H250 - Introduction to Dental Ethics Credits: 1
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- DAST A112 - Dental and Medical Emergencies and Therapeutics Cr. 2.
- DHYG H211 - Head and Neck Anatomy Cr. 2.
- DHYG H214 - Oral Anatomy Cr. 3
- DHYG H215 - Pharmacology and Therapeutics (lecture) Cr. 2.
- DHYG H216 - Chemistry and Nutrition- First Year Cr. 2-3.
- DHYG H217 - Preventive Dentistry Cr. 2.
- DHYG H218 - Fundamentals of Dental Hygiene (lecture and lab) Cr. 3-5.

- DHYG H219 - Clinical Practice I Cr. 3-4.
- DHYG H221 - Clinical Dental Hygiene Procedures Cr. 1-2.
- DHYG H301 - Clinical Practice II Cr. 4-5.
- DHYG H302 - Clinical Practice III Cr. 4-5.
- DHYG H303 - Radiology (lecture and lab) Cr. 1-2.
- DHYG H304 - Oral Pathology Cr. 2.
- DHYG H305 - Radiology Clinic I Cr. 1.
- DHYG H306 - Radiology Clinic II Cr. 1.
- DHYG H307 - Radiology Clinic III Cr. 1.
- DHYG H308 - Dental Materials (lecture and lab) Cr. 2-3.
- DHYG H309 - Practice of Community Dental Hygiene Cr. 2.
- DHYG H320 - Practice Management, Ethics, and Jurisprudence Cr. 1-2.
- DHYG H321 - Periodontics Cr. 1-2.
- DHYG H344 - Senior Hygiene Seminar Cr. 1-2.
- DHYG H347 - Dental Public Health Cr. 3-4.

Total Credits: 61

Dental Laboratory Technology (A.S.)

Program: A.S. in Dental Laboratory Technology Department of Dental Education School of Health Sciences

Neff Hall 150 ~ 260-481-6837

The program offers a full-time and part-time curriculum that is accredited by the Commission on Dental Accreditation of the American Dental Association. The program helps you prepare to construct restorative dental appliances and prostheses prescribed by dentists. All courses are offered during daytime hours. Upon completion of the program, you are eligible to take the Comprehensive Examination and one written Specialty Examination of the National Board for Certification. A further practical examination may enable you to become a certified dental technician in our area of specialization.

Admission

Admission to IPFW does not confer admission to the program. You must apply separately to both IPFW and the dental laboratory technology program. You must contact the director of dental laboratory technology for specific information about the program. You may begin the program only in the fall.

Program Requirements

To earn an A.S. in dental laboratory technology, you must fulfill the requirements of IPFW (see Part 7) and the Department of Dental Education, and satisfactorily complete the following courses:

IPFW General Education Requirements (9 credits)

- ENG W131 - Elementary Composition I Cr. 3.

One of the following: Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Dental Technology Requirements (60–64 credits)

- DLTP D111 - History, Ethics, Organization Cr. 1.
- DLTP D112 - Dental Anatomy Cr. 4.
- DLTP D113 - Basic Physics, Chemistry, and Dental Materials Cr. 5.
- DLTP D114 - Occlusion Cr. 3.
- DLTP D125 - Crown and Bridge Prosthodontics I Cr. 3.
- DLTP D126 - Orthodontics/ Pedodontics Appliances I Cr. 3.
- DLTP D127 - Complete Denture Prosthodontics I Cr. 4.
- DLTP D128 - Partial Denture Prosthodontics I Cr. 3.
- DLTP D129 - Dental Ceramics I Cr. 3.
- DLTP D215 - Crown and Bridge Prosthodontics II Cr. 4.
- DLTP D216 - Orthodontics/ Pedodontics Appliances II Cr. 3.
- DLTP D217 - Complete Denture Prosthodontics II Cr. 3.
- DLTP D218 - Partial Denture Prosthodontics II Cr. 3.
- DLTP D219 - Dental Ceramics II Cr. 4.
- DLTP D221 - Dental Laboratory Business Procedures Cr. 2.
- DLTP D222 - Practical Laboratory Experience Cr. 4-6.

Credits from among the following: 8–10

- DLTP D225 - Specialty in Crown and Bridge Prosthodontics Cr. 4.
- DLTP D226 - Specialty in Orthodontics/ Pedodontics Cr. 4.
- DLTP D227 - Specialty in Complete Denture Prosthodontics Cr. 4.
- DLTP D228 - Specialty in Partial Denture Prosthodontics Cr. 4.
- DLTP D229 - Specialty in Dental Ceramics Cr. 4.

Total Credits: 69–73

Early Childhood Education (A.S.)

Program: A.S.

Department of Educational Studies

School of Education

Neff Hall 250 ~ 260-481-6441

The A.S. in early childhood education program provides preparation for workers in nursery schools, Headstart programs, and preschool programs. It does not lead to teacher licensure.

To earn the A.S. in early childhood education, you must fulfill the requirements of IPFW (see part 7) and the School of Education.

IPFW General Education Requirements Credits: 30

- AUS 115 - Introduction to Communicative Disorders Cr. 3.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
(a grade of B or better is required)
- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC H340 - Education and American Culture Cr. 2-3.
(corequisite with EDUC E317)
Credits: 3
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
(corequisite with EDUC W200)
Credits: 0
- EDUC Q200 - Introduction to Scientific Inquiry Cr. 1-3.
Credits: 1
- EDUC W200 - Using Computers for Education Cr. 1.
(a grade of B or better is required)
- ENG W131 - Elementary Composition I Cr. 3.
(a grade of B or better is required)
- MA 101 - Mathematics for Elementary Teachers I Cr. 3.
- MUS Z241 - Introduction to Music Fundamentals Cr. 2.

One of the following: Credits: 3

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

One of the following Credits:3

- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.

Professional Courses Credits: 34

(a grade of B or better is required in all Professional Courses)

- EDUC E317 - Practicum in Early Childhood Education Cr. 4.
- EDUC E330 - Infant Learning Environments Cr. 3.
- EDUC E333 - Inquiry in Mathematics and Science Cr. 3.
pre- or corequisite EDUC P249
- EDUC E335 - Introduction to Early Childhood Education Cr. 3.
- EDUC E336 - Play as Development Cr. 3.
pre- or corequisite EDUC P249
- EDUC E337 - Classroom Learning Environments Cr. 3.
pre- or corequisite EDUC P249
- EDUC E338 - The Early Childhood Educator Cr. 3.
- EDUC E346 - Discipline/Parenting for Young Children Cr. 3.
- EDUC E347 - Language Arts for Early Childhood Cr. 3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
(corequisite with EDUC P249)
(corequisite with EDUC E330)
(corequisite with EDUC E337)
Credits: 0
- EDUC P249 - Growth and Development in Early Childhood Cr. 3.

Electrical Engineering Technology (A.S.)

Program: A.S.

Department of Electrical and Computer Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

The A.S. program emphasizes course and lab work in electricity, electronics, computers, mathematics, science, and general academic areas that help prepare you for entry into the electrical and electronics fields as a technician and qualifies you for admission to the B.S. program.

To earn the A.S., you must fulfill the requirements of IPFW (see Part 7) and complete the following courses:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations Credits: 9

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
ENG W131 Grade C or above required.
- MA 153 - Algebra and Trigonometry I Cr. 3.

Area II—Natural and Physical Sciences Credits: 4

- PHYS 218 - General Physics Cr. 4.

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

Core and Concentration (Major) Courses Credits: 39

- ECET 107 - Introduction to Circuit Analysis Cr. 4.
- ECET 111 - Digital Circuits Cr. 4.
- ECET 114 - Introduction to Microcomputers Cr. 3.
- ECET 146 - Digital Circuits II Cr. 3.
- ECET 157 - Electronics Circuit Analysis Cr. 4.
- ECET 205 - Introduction to Microprocessors Cr. 4.
- ECET 207 - AC Electronics Circuit Analysis Cr. 4.
- ECET 231 - Electrical Power and Controls Cr. 4.
- ECET 264 - C Programming Language Applications Cr. 3.
- ECET 296 - Electronic System Fabrication Cr. 2-3.
- ECET 302 - Introduction to Control Systems Cr. 4.
or
- ECET 303 - Communications I Cr. 4.

Required non-ECET technical course Credits: 2

- CPET 190 - Problem Solving with MATLAB Cr. 1-4.

Required Math Courses Credits: 10

- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.

- MA 228 - Calculus for Technology II Cr. 3.

Total Credits: 68-69

English Concentration (A.A.)

Program: Concentration A.A. Department of English and Linguistics

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

In addition to the courses listed below, you must complete MA 153 or 168 or STAT 125 for your IPFW General Education course in Quantitative Reasoning, and ENG L202 as a course in General Education Area IV. If you plan to continue for a bachelor's degree with a major in English (see Part 4), you should take the secondyear foreign-language courses as electives for the A.A.

Program Requirements

- Credits in American literature Credits: 3
- Credits in British literature before 1700 Credits: 3
- Credits in British literature after 1700 Credits: 3
- Credits in language study Credits: 3
- Credits in ENG W203 or a 300-400-level English writing course Credits: 3

French Concentration (A.A.)

Program: Concentration A.A. Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs

In addition to the courses listed below, you must complete MA 153 or 168 or STAT 125 for your IPFW General Education course in Quantitative Reasoning. If you plan to continue for a bachelor's degree with a major in French, see Part 4 for B.A. requirements.

Program Requirements

- FREN F203 - Second-Year French I Cr. 3.
- FREN F204 - Second-Year French II Cr. 3.

- FREN F317 - French Language Skills I Cr. 3.
- FREN F318 - French Language Skills II Cr. 3.

One of following Credits: 3

- FREN F326 - French in the Business World Cr. 3.
- FREN F330 - Introduction to Translating French and English Cr. 3.

General Studies (A.A.G.S.)

Program: A.A.G.S.

Division of Continuing Studies

Kettler Hall 145 ~ 260-481-6828 ~ www.edu/dcs/gsd/

General Studies offers a wide variety of personalized degree options to the traditional and nontraditional student. Students may individually tailor their program to combine a substantial core of courses basic to a traditional university education and study in career-related areas. Within the flexible framework of degree requirements, students may design an undergraduate program that can more readily meet their career and personal-development goals than can a traditional major. Students will be encouraged and assisted in developing a unique academic program complementing their individual interests, abilities, and intellectual and practical concerns.

In addition to taking advantage of the wide variety of daytime, evening, and weekend classes at IPFW, students may choose to earn credit toward their degree through correspondence study. Students may also earn credit by examination, and in some cases earn credit for significant, documentable self-acquired competencies when the learning outcomes have been comparable to those of university-level work. Consideration is given to all previously earned college credit from other accredited institutions. The Associate of Arts in General Studies and Bachelor of General Studies programs may also be tailored to the needs of those unable to study on campus during regularly scheduled periods. Both degrees may be completed online.

Both programs include courses in broad categories called required areas of learning (listed below) and elective credit that students may earn in any IPFW program. The required areas of learning provide broad exposure to the humanities, social sciences, and sciences, while the electives permit students to explore areas of interest, receive credit for prior university-level experiential learning, and tailor the degree to their individual needs. In each plan of study, students must demonstrate competency in each of the following areas: written communication (two courses), oral communication, mathematics, computer literacy, a diversity course, and a capstone course.

After students are admitted to a general studies degree program, students will develop a plan of study to meet their objectives. An advisor will provide assistance in this effort. For further information, refer to the current Indiana University School of Continuing Studies *General Studies Degree Bulletin*.

To earn an A.A.G.S., students must complete the following requirements:

IPFW General Education Requirements

Area I- Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Required Areas of Learning

General studies is a university-wide degree program, certified through Indiana University's School of Continuing Studies. The program follows the same curriculum requirements throughout Indiana University.

Arts and Humanities Credits: 6

(depending upon course selection for general education)

Afro-American Studies	Foreign Language
Classical Studies	History
Communication	Journalism
Comparative Literature	Music
English (except R150 and W130)	Philosophy
Film	Religion
Fine Arts	Theatre
Folklore	Visual Communication and Design

Science and Mathematics Credits: 9

(depending upon course selection for general education)

- ANTH B200 and E445 (only)
- Astronomy
- Biology
- Chemistry
- *Computer Science (includes BUS K211, K212, K213, K214, K215, and K216)
- ECON E270 (only)
- Entomology
- Forestry and Natural Resources
- GEOG G107, G109, G315 (only)
- Geology
- Horticulture
- Mathematics (except 109, 111, and 113)
- Physics
- PSY 120, 201, 310, 314, 329, and 416 (only)

- SOC S351 (only)
- SPEA K300 (only)
- Statistics

*required course

Social and Behavior Sciences Credits: 12

(depending upon course selection for general education)

- Anthropology
- Psychology
- Economics
- Sociology
- Geography
- SPEA J101 (only)
- Linguistics
- WOST W210 (only)
- Political Science
- 12 credits in each required area of learning, including courses from at least two departments in each area.

General Elective Courses Credits: 24

In consultation with an advisor, you are urged to concentrate electives in related areas.

Note

Students must complete at least 10 of the above credits after admission to the program. No more than 15 credits can be in any one subject. Courses in which a grade of D is earned will count only as electives. At least 15 credits must be taken within the IU system or as a Purdue student at IPFW.

Total Credits: 60

German Concentration (A.A.)

Program: Concentration A.A.

Department of International Language and Culture Studies

School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

In addition to the courses listed below, you must complete MA 153 or 168 or STAT 125 for your IPFW General Education course in Quantitative Reasoning. If you plan to continue for a bachelor's degree with a major in German, see Part 4 for B.A. requirements.

Program Requirements

- GER G203 - Second-Year German I Cr. 3.
- GER G204 - Second-Year German II Cr. 3.
- GER G318 - German Language Skills I Cr. 3-5.
Credits: 3

One of following Credits: 3

- GER G315 - Business German Cr. 3.
- GER G319 - German Language Skills II Cr. 3.

One of following Credits: 3

- GER G362 - Deutsche Landeskunde Cr. 3.
- GER G363 - Deutsche Kulturgeschichte Cr. 3.

History Concentration (A.A.)

Program: Concentration A.A.

Department of History

School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/hist

In addition to the courses listed below, you must complete MA 153 or 168 or STAT 125 for your IPFW General Education course in Quantitative Reasoning. If you plan to continue for a bachelor's degree with a major in history, see Part 4 for B.A. requirements.

Program Requirements

- Credits in upper-level American history Credits: 3
- Credits in upper-level European history Credits: 3
- Credits in upper-level Other World history Credits: 3
- HIST H105 - American History I Cr. 3.
- HIST H106 - American History II Cr. 3.
- HIST H113 - History of Western Civilization I Cr. 3.
- HIST H114 - History of Western Civilization II Cr. 3.

Hotel, Restaurant, and Tourism Management (A.S.)

Program: A.S.
Department of Consumer and Family Sciences
School of Health Sciences

Neff Hall 330 ~ 260-481-6562

This program helps you prepare for the responsibilities of supervising tourism businesses and operations of facilities that provide food service and lodging for large numbers of people. All courses required for this option apply to the Bachelor of Science in hospitality management at IPFW. To earn the A.S., you must satisfy the requirements of IPFW (see Part 7), earn a grade of C or better in each required ENG and HTM course, and complete the following requirements:

Special Academic Regulation for Students in Hotel, Restaurant, and Tourism Management

Correspondence and independent-study courses in the major are not accepted for credit in this program.

The academic-renewal option (see Part 7) is available.

IPFW General Education Requirements Credits: 18

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W232 - Introduction to Business Writing Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Business, Economics, and SupervisionCredits: 12

- BUS A201 - Principles of Financial Accounting Cr. 3.
- ECON E200 - Fundamentals of Economics Cr. 3.
- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 376 - Human Resources Issues Cr. 3.

HTM Core (formerly RHIT)Credits: 35

- FNN 203 - Foods Selection and Preparation Cr. 3.
- FNN 303 - Essentials of Nutrition Cr. 3.
- HTM 100 - Introduction to the Hospitality and Tourism Industry Cr. 1-3.
- HTM 181 - Lodging Management Cr. 3.
- HTM 191 - Sanitation and Health in Foodservice, Lodging, and Tourism Cr. 3.
- HTM 212 - Organization and Management in the Hospitality and Tourism Industry Cr. 3.

- HTM 291 - Quantity Food Production and Service Cr. 2-3.
- HTM 291L - Quantity Food Production and Service Labs Cr. 2.
- HTM 301 - Hospitality and Tourism Industry Practicum Cr. 1.
- HTM 311 - Procurement Management for Foodservice Cr. 3.
- HTM 341 - Cost Controls in Foodservice and Lodging Cr. 3.
- HTM 371 - Introduction to Tourism Cr. 3.
- HTM 491 - Beverage Management Cr. 2.

General Elective Courses Credits: 3

Total Credits: 68

Industrial Engineering Technology (A.S.)

Program: A.S

Department of Mechanical and Industrial Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 205 ~ 260-481-6385 ~ www.mft.ipfw.edu

This program prepares graduates with knowledge, technical, analytical, and managerial skills necessary to develop, implement, and improve integrated systems in manufacturing and service industries that include people, materials, equipment, information, and energy. Graduates will be prepared for both immediate employment and continuation in the B.S. program.

To earn the A.S. with a major in industrial engineering technology, you must fulfill the requirements of IPFW (see Part 7) and complete the following courses, earning a grade of C or better in those courses that serve as prerequisites.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

Grade of C or better required for the following courses.

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 159 - Precalculus Cr. 5.

Area II—Natural and Physical Sciences

- PHYS 218 - General Physics Cr. 4.
Grade of C or better required
- PHYS 219 - General Physics II Cr. 4.

Area III—The Individual, Culture, and Society

- IET 105 - Industrial Management Cr. 3.
Grade of C or better required
- PSY 120 - Elementary Psychology Cr. 3.

Core and Concentration (Major) Courses

- ETCS 101 - Introduction to Engineering, Technology, and Computer Science Cr. 1.
- IET 204 - Techniques of Maintaining Quality Cr. 3.
Grade of C or better required
- IET 224 - Production Planning and Control Cr. 3.
- IET 257 - Ergonomics Cr. 3.
- IET 267 - Work Methods Design Cr. 3.
Grade of C or better required
- IET 310 - Plant Layout and Material Handling Cr. 3.
Grade of C or better required
- MET 104 - Technical Graphics Communications Cr. 3.
Grade of C or better required
- MET 106 - Analytical and Computational Tools in MET Cr. 2.
Grade of C or better required
- MET 180 - Materials and Processes Cr. 3.
Grade of C or better required
- MET 223 - Introduction to Computer- Aided Modeling and Design Cr. 3.
Grade of C or better required
- MET 335 - Basic Machining Cr. 3.
Grade of C or better required

Additional Required Technical Courses

Grade of C or better required for the following courses.

- CS 114 - Introduction to Visual Basic Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Required Support Courses

Grade of C or better required for the following course.

- ENG W234 - Technical Report Writing Cr. 3.

Total Credits: 64

Information Systems (A.S.)

Program: A.S.

Department of Computer Science

College of Engineering, Technology, and Computer Science

Kettler Hall 252 ~ 260-481-6803 ~ www.cs.ipfw.edu/

This program is focused on fundamental computing courses. All requirements may be applied to the B.S. program in information systems. Graduates of the A.S. program typically continue in the B.S. program, although they are qualified for employment opportunities in the computer field.

To earn the A.S. with a major in information systems, you must fulfill the requirements of IPFW (see Part 7) and complete the following courses. Only computer science courses in which you have earned a grade of C or better can be applied to the degree or used to satisfy prerequisites. A maximum of 10 credits of D grades will be accepted in other courses.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
(or equivalent)

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

Major Requirements Credits: 20

- CS elective (200+ level) approved by advisor Credits: 6
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.

- CS 274 - Data Communications Cr. 3.

One of the following Credits: 3

- CS 114 - Introduction to Visual Basic Cr. 3.
- CS 155 - COBOL Programming Cr. 3.

Supporting Courses

One of the following Credits: 3

- BUS A201 - Principles of Financial Accounting Cr. 3.
- ENG W234 - Technical Report Writing Cr. 3.
- MA 151 - Algebra and Trigonometry Cr. 5.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 175 - Introductory Discrete Mathematics Cr. 3.

One of the following Credits: 3

- BUS W100 - Principles of Business Administration Cr. 3.
- IET 105 - Industrial Management Cr. 3.

One of the following Credits: 3

- ECON E200 - Fundamentals of Economics Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.

Approved Laboratory Course Credits: 4

In Biology, Chemistry, Earth and Space Sciences, Or Physics

Approved Electives Credits: 7

Total Credits: 64

Interior Design (A.S.)

Program: A.S.

Department of Civil and Architectural Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 229 ~260-481-6797 ~ www.caet.ipfw.edu

The associate degree in interior design prepares you for employment as an interior design assistant, residential designer, kitchen design consultant, lighting and color consultant, drafts person, CAD operator, or product representative. You are prepared for these responsibilities through a blend of technical and practical design courses. The program is enhanced by overseas travel and study opportunities. Graduates will be prepared for immediate employment and continuation in the B.S. program.

To earn the A.S. with a major in interior design, you must satisfy the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3); earn a grade of C or better in ENG W131 and each required INTR course; and complete the requirements listed below:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations Credits: 12

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.

Area II—Natural and Physical Sciences Credits: 3

- PHYS 125 - Light and Color Cr. 3.

Area III—The Individual, Culture, and Society Credits: 3

- OLS 252 - Human Relations in Organizations Cr. 3.

Area IV—Humanistic Thought Credits: 3

- INTR 220 - Architecture and Urban Form Cr. 3.

Core and Concentration (Major) Courses Credits: 44

- ARET 123 - Construction Graphic Communication Cr. 3.
- ARET 124 - Architectural Engineering Construction I Cr. 3.
- ARET 167 - Construction Systems and Materials Cr. 3.

- ARET 281 - Environmental Equipment for Buildings I Cr. 3.
- CNET 276 - Specs, Contracts, and Codes Cr. 3.
- CNET 280 - Quantity Estimating Cr. 3.
- INTR 111 - Introduction to Interior Design Cr. 3.
- INTR 112 - Residential Interior Design II Cr. 3.
- INTR 121 - Freehand Sketching Cr. 3.
- INTR 123 - Perspective Drawing Cr. 3.
- INTR 131 - Decorative Materials and Accessories I Cr. 3.
- INTR 201 - CAD for Interior Design Cr. 3.
- INTR 206 - Portfolio and Professional Presentation Cr. 1
- INTR 241 - Lighting and Color Design Cr. 3.
- VCD F102 - Color Design Cr. 3.

Total Credits: 65

Labor Studies (A.S.)

Division of Labor Studies

Program Offered: A.S.L.S.

Kettler Hall G28 ~ 260-481-6831 ~ www.labor.iu.edu

To earn the Associate of Science in Labor Studies, you must fulfill the requirements of IPFW (see Part 7) and successfully complete the following courses:

Program Requirements

Credits from the Labor Studies Core Credits: 15

Credits from the following: 15

- LSTU L100 - Survey of Unions and Collective Bargaining Cr. 3.
- LSTU L101 - American Labor History Cr. 3.
- LSTU L110 - Introduction to Labor Studies: Labor and Society Cr. 3.
- LSTU L190 - The Labor Studies Degree Cr. 1.
- LSTU L200 - Survey of Employment Law Cr. 3.
- LSTU L201 - Labor Law Cr. 3.
- LSTU L203 - Labor and the Political System Cr. 3.
- LSTU L205 - Contemporary Labor Problems Cr. 3.
- LSTU L210 - Workplace Discrimination and Fair Employment Cr. 3.
- LSTU L220 - Grievance Representation Cr. 3.

- LSTU L230 - Labor and the Economy Cr. 3.
- LSTU L240 - Occupational Health and Safety Cr. 3.
- LSTU L250 - Collective Bargaining Cr. 3.
- LSTU L251 - Collective Bargaining Laboratory Cr. 1-3.
- LSTU L255 - Unions in State and Local Government Cr. 3.
- LSTU L260 - Leadership and Representation Cr. 3.
- LSTU L270 - Union Government and Organization Cr. 3.
- LSTU L280 - Union Organizing Cr. 3.

Required Areas of Learning for Labor Studies

Arts and Humanities

- Afro-American Studies
- Classical Studies
- Communication
- Comparative Literature
- English (except R150 and W130)
- Folklore
- Foreign Language
- History
- Journalism
- Music
- Philosophy
- Theatre
- Visual Arts

Sciences and Mathematics

- Anthropology (B200 and E445 only)
- Astronomy
- Biology
- Chemistry (except 100)
- Computer Science (includes BUS K200, K211, K212, K213, K214, K215, K216)
- Economics (E270 only)
- Entomology
- Forestry and Natural Resources
- Geography (G107 and G304 only)
- Geology
- Horticulture
- Mathematics (except 101, 102, 103, 109, 111, and 113)
- Physics
- Psychology (120, 201, 314, 333, 329, and 416 only)
- Sociology (S351 only)
- SPEA (K300 only)
- Statistics

Social and Behavior Sciences

- Anthropology
- Economics
- Geography
- Linguistics
- Political Science
- Psychology
- Sociology
- SPEA (J101 only)
- WOST (W210 only)

Additional credits in labor-studies courses Credits: 12

Arts and Humanities Area of Learning (12 credits)

- Credits in a second writing course Credits: 3
- Credits from at least two different subjects Credits: 6
- ENG W131 - Elementary Composition I Cr. 3.

Social and Behavioral Sciences Area of Learning Credits: 9

Credits, including one economics course (ECON E201 is recommended); courses in this area must be selected from at least two different subjects

Science and Mathematics Area of Learning Credits: 6

Credits, including one course in computer science (recommended). Science and mathematics courses must be selected from at least two different subjects

Electives Credits: 6

Note

You must earn a minimum of 10 credits after admission to labor studies and may apply toward the degree no more than 15 credits in a single subject other than labor studies. You must complete at least 12 credits while enrolled as an IU student.

Total Credits: 60

LPN (A.S.)

Program: LPN A.S.

Department of Nursing

School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/nursing

LPN Mobility

Admission to the nursing program is competitive. LPN applicants must meet the following requirements:

- Be admitted to IPFW as a degree-seeking student (see Part 7).
- Be a graduate of an NLNAC or equivalent accredited practical nursing program.
- Have a minimum GPA of 3.0 or higher upon graduation from the LPN program.
- A minimum GPA does not guarantee admission. The actual GPA necessary for admission varies with the GPA distribution of the applicant pool and the number of available seats for admission.
- Have completed anatomy and physiology within five years of application.
- Applicants are required to take a preadmission examination. The examination is administered on specific dates and times.

Applicants pay a testing fee.

NOTE: Students who have previously been dismissed from the IPFW nursing program, or any nursing degree program, and return under the above LPN admission criteria will be dismissed from the program with a failure of any one required nursing course.

LPN–A.S. or LPN–B.S.

A student who earns a grade of C or better in NUR 117 and NUR 224 will be awarded an additional 13 credit hours for the following first-year nursing courses:

NUR 115	5 credits
NUR 130	2 credits
NUR 202	6 credits

Program Requirements

LPN A.S. Core Credits: 26

- NUR 103 - Professional Seminar I Cr. 2.
- NUR 117 - Associate Science Degree in Nursing Mobility Seminar Cr. 1.
- NUR 224 - Nursing IIIA (Medical-Surgical Nursing of Adults) Cr. 8.
- NUR 225 - Maternity Nursing Cr. 3.
- NUR 240 - Psychiatric Mental Health Nursing Cr. 4*.
- NUR 281 - Nursing Issues and Manager of Care Cr. 4.
- NUR 295 - Concepts in Critical Thinking Cr. 1.
- NUR 379 - Caring for Children and Families Cr. 3.

Supporting Courses Credits: 20

- Credits in elective Credits: 3
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- CHM 104 - Living Chemistry Cr. 3.
- FNN 303 - Essentials of Nutrition Cr. 3.
- PCTX 201 - Introductory Pharmacology Cr. 3-4.
- SOC S161 - Principles of Sociology Cr. 3.

Total Credits: 46

Mathematics Concentration (A.A.)

Program Offered: Concentration A.A.

Department of Mathematical Sciences

School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

The requirement of a Quantitative Reasoning course in IPFW General Education Area I is satisfied by the courses below. If you plan to continue for a bachelor's degree with a major in mathematics or mathematics teaching, see Part 4 for B.S. requirements.

Program Requirements

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 263 - Multivariate and Vector Calculus Cr. 4.

One of the following Credits: 3

- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 351 - Elementary Linear Algebra Cr. 3.

Mechanical Engineering Technology (A.S.)

Program: A.S.

Department of Mechanical and Industrial Engineering Technology College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 205 ~ 260-481-6385 ~ www.mft.ipfw.edu

This program prepares graduates with knowledge, problem-solving ability, and hands-on skills to enter careers in installation, manufacturing, testing, evaluation, computer-aided design, or maintenance of basic mechanical systems. Graduates will be prepared for both immediate employment and continuation in the B.S. program.

To earn the A.S. with a major in mechanical engineering technology, you must fulfill the requirements of IPFW (see Part 7) and complete the following courses, earning a grade of C or better in those courses that serve as prerequisites.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
Grade of C or better required
- ENG W131 - Elementary Composition I Cr. 3.
Grade of C or better required
- MA 159 - Precalculus Cr. 5.
Grade of C or better required

Area II—Natural and Physical Sciences

- PHYS 218 - General Physics Cr. 4.
Grade of C or better required
- PHYS 219 - General Physics II Cr. 4.

Area III—The Individual, Culture, and Society

- IET 105 - Industrial Management Cr. 3.
Grade of C or better required

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

Core and Concentration (Major) Courses

- ETCS 101 - Introduction to Engineering, Technology, and Computer Science Cr. 1.

- IET 204 - Techniques of Maintaining Quality Cr. 3.
- MET 104 - Technical Graphics Communications Cr. 3.
Grade of C or better required
- MET 106 - Analytical and Computational Tools in MET Cr. 2.
Grade of C or better required
- MET 180 - Materials and Processes Cr. 3.
Grade of C or better required
- MET 201 - Statics, Stress, and Strain Cr. 3.
Grade of C or better required
- MET 202 - Strength of Materials Cr. 3
Grade of C or better required
- MET 216 - Machine Elements Cr. 4.
Grade of C or better required
- MET 223 - Introduction to Computer- Aided Modeling and Design Cr. 3.
Grade of C or better required
- MET 330 - Introduction to Fluid Power Cr. 3.
- MET 335 - Basic Machining Cr. 3.
Grade of C or better required

Additional Required Technical Courses

- ECET 114 - Introduction to Microcomputers Cr. 3.
Grade of C or better required
- STAT 301 - Elementary Statistical Methods I Cr. 3.
Grade of C or better required

Required Support Courses

- ENG W234 - Technical Report Writing Cr. 3.
Grade of C or better required

Total Credits: 63

Nursing (A.S.)

Program: A.S.

Department of Nursing

School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/nursing

Program Requirements

A.S. Core Credits: 38

- NUR 103 - Professional Seminar I Cr. 2.
- NUR 115 - Nursing I: Introduction to Nursing Cr. 5.
- NUR 130 - Essential Clinical Skills Cr. 2.
- NUR 202 - Nursing II: Medical-Surgical Nursing of Adults Cr. 6.
- NUR 224 - Nursing IIIA (Medical-Surgical Nursing of Adults) Cr. 8.
- NUR 225 - Maternity Nursing Cr. 3.
- NUR 240 - Psychiatric Mental Health Nursing Cr. 4*.
- NUR 281 - Nursing Issues and Manager of Care Cr. 4.
- NUR 295 - Concepts in Critical Thinking Cr. 1.
- NUR 379 - Caring for Children and Families Cr. 3.

Supporting Courses Credits: 34

- NUR elective Credits: 3
- BIOL 203 - Human Anatomy and Physiology Cr. 4.
and
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- CHM 104 - Living Chemistry Cr. 3.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- FNN 303 - Essentials of Nutrition Cr. 3.
- PCTX 201 - Introductory Pharmacology Cr. 3-4.
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Total Credits: 72

Organizational Leadership and Supervision (A.S.)

Program: A.S.

Division of Organizational Leadership and Supervision

Neff Hall 288 ~ 260-481-6420 ~ www.ipfw.edu/ols

This program helps you prepare for leadership positions or for advancement in business and service organizations. The A.S. with a major in organizational leadership and supervision is of particular benefit to individuals who already possess technical skills and work experience and to students who complete the program along with a bachelor's degree in a technical or behavioral-science area.

To earn the A.S. with a major in organizational leadership and supervision, you must satisfy the requirements of IPFW (see Part 7) and the Division of Organizational Leadership and Supervision (see Part 3); earn a grade of C or better in ENG W131, ENG W233, and each OLS course; and complete the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.

Area II—Natural and Physical Sciences Credits: 3

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

OLS Core Classes

- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 268 - Elements of Law Cr. 3.
- OLS 274 - Applied Leadership Cr. 3.
- OLS 375 - Training Methods Cr. 3.
- OLS 376 - Human Resources Issues Cr. 3.

OLS Electives Credits: 6

Technical Support Requirements

- BUS A201 - Principles of Financial Accounting Cr. 3.
- CS 106 - Introduction to Computers Cr. 3.
- ECON E200 - Fundamentals of Economics Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

- OLS 280 - Computer Applications for Supervisors Cr. 3.

Unrestricted Elective Courses Credits: 6

Total Credits: 63

Political Science Concentration (A.A.)

Program: Concentration A.A.
Department of Political Science
School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/pols

In addition to the courses listed below, you must complete MA 153 or MA 168 for your IPFW General Education course in Quantitative Reasoning. If you plan to continue for a bachelor's degree with a major in political science (see Part 4), you should take the second-year foreign-language courses as electives for the A.A.

Program Requirements

- Additional credits in political science Credits: 6
- Additional credits in political science, 200 level or above Credits: 6
- POLS Y205 - Elements of Political Analysis Cr. 3.
- POLS Y395 - Quantitative Political Analysis Cr. 3.

Psychology Concentration (A.A.)

Program: Concentration A.A.
Department of Psychology
School of Arts and Sciences

Neff Hall 388 ~ 260-481-6403 ~ www.ipfw.edu/psyc

In addition to the courses listed below, you must complete MA 153, MA 168, or STAT 125 as your IPFW General Education course in Quantitative Reasoning. If you plan to continue for a bachelor's degree with a major in psychology (see Part 4), you should take the second-year foreign-language courses as electives for the A.A.

Program Requirements

- Additional credits in psychology, 200 level or above Credits: 3
- PSY 100 - Introduction to the Science and Fields of Psychology Cr. 1.
- PSY 120 - Elementary Psychology Cr. 3.

Two of the following Credits: 6

- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- PSY 314 - Introduction to Learning Cr. 3.
- PSY 329 - Psychobiology II: Principles of Psychobiological Psychology Cr. 3.
- PSY 416 - Cognitive Psychology Cr. 3.

Two of the following Credits: 6

- PSY 235 - Child Psychology Cr. 3.
Credit not given for both PSY 235 and PSY 369
- PSY 240 - Introduction to Social Psychology Cr. 3.
- PSY 350 - Abnormal Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.
Credit not given for both PSY 235 and PSY 369
- PSY 420 - Introduction to Personality Theory Cr. 3.

Radiography (A.S.)

Program: A.S.R.

School of Health Sciences

Neff Hall 142 ~ 260-481-6967

The radiography program encompasses both university courses and professional education. Professional education in radiography is a combination of classroom instruction and clinical experience. Under the supervision of radiologists and registered radiographers, you will progress from observing to assisting, and subsequently, to conducting radiographic examinations. In this manner, you will immediately utilize the theories and concepts presented in the classroom. The clinical experience associated with the professional-education portion of the program is conducted in the radiology departments of St. Joseph Hospital and Parkview Hospital in Fort Wayne.

All university prerequisite courses must be completed to be eligible for admission into the program. Applicants may be in the process of meeting the criteria when they apply for admission. Math and BIOL 203/204 prerequisite courses must have been completed within five years of admission to the professional program. Special circumstances will be evaluated by the admissions committee. Students must achieve a grade of C or better in math and in Human Anatomy and Physiology I and II and maintain a cumulative GPA of 2.7 or better in all prerequisite course work. Admission to this program is competitive and based on prerequisite GPA, personal interview, reference forms, and admission testing. Completion of course work alone does not ensure admission. You must apply directly to the directors of the Radiography Program at the Fort Wayne School of Radiography before March 1 for Summer II admission to the professional program.

To earn the A.S. in radiography, you must fulfill the requirements of IPFW (see Part 7) and the School of Health Sciences (see Part 3), and complete the following courses. Where school or department regulations are stricter than IPFW regulations, the stricter regulations apply. Students are required to maintain a cumulative GPA of 3.00 in the professional-education courses with a minimum grade of C in all courses. You must also consult a program director at the Fort Wayne School of Radiography to discuss admission to the program, 260-425-3990.

Prerequisite Courses (21 credits)

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- CS 106 - Introduction to Computers Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.

Professional Education Program (60 credits)

- AHLT R100 - Orientation to Radiologic Technology Cr. 2.
- AHLT R101 - Radiographic Procedures I Cr. 3-4.
- AHLT R102 - Principles of Radiography I Cr. 3.
- AHLT R181 - Clinical Experience in Radiography Cr. 1-6.
- AHLT R182 - Clinical Experience in Radiography Cr. 1-6.
- AHLT R185 - Medical Terminology Cr. 1.
- AHLT R200 - Pathology Cr. 2-3.
- AHLT R201 - Radiographic Procedures II Cr. 3-4.
- AHLT R202 - Principles of Radiography II Cr. 3.
- AHLT R205 - Radiographic Procedures III Cr. 3-4.
- AHLT R222 - Principles of Radiography III Cr. 3.
- AHLT R250 - Physics Applied to Radiology Cr. 2-4.
- AHLT R260 - Radiation Biology and Protection in Diagnostic Radiology Cr. 1-3.
- AHLT R281 - Clinical Experience in Radiography Cr. 1-6.
- AHLT R282 - Clinical Experience in Radiography Cr. 1-6.
- AHLT R283 - Clinical Experience in Radiography Cr. 1-6.
- AHLT R290 - Comprehensive Experience Cr. 1-8.

Total Credits: 81

Spanish Concentration (A.A.)

Program: Concentration A.A.

Department of International Language and Culture Studies

School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

In addition to the courses listed below, you must complete MA 153, MA 168, or STAT 125 for your IPFW General Education course in Quantitative Reasoning; ANTH L200 or LING L103 is recommended as a selection from IPFW General Education Area III. If you plan to continue for a bachelor's degree with a major in Spanish, see Part 4 for B.A. requirements.

Program Requirements

- SPAN S203 - Second-Year Spanish I Cr. 3.
- SPAN S204 - Second-Year Spanish II Cr. 3.
- SPAN S210 - Second-Year Spanish Composition Cr. 2-3.
- SPAN S317 - Spanish Conversation and Diction Cr. 3.

One of the following Credits: 3

- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.

One of the following Credits: 3

- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.

Women's Studies Concentration (A.A.)

Program: Concentration A.A. School of Arts and Sciences

Classroom-Medical Building 272 ~ 260-481-6711

Women's studies is based on the premise that the study of women's experiences, concerns, social roles, and creativity is essential to our knowledge of humankind and society. Feminist scholarship and theory provide the knowledge and analytical tools necessary for a gender-balanced perspective on our world, both past and present. The Women's Studies Program affords you the opportunity to pursue feminist scholarship on women and gender through a variety of interdisciplinary courses.

In addition to the courses listed below, you must complete MA 153, MA 168, or STAT 125 for your IPFW General Education course in Quantitative Reasoning. If you plan to continue for a bachelor's degree with a major in women's studies (see Part 4), you should take the second-year foreign-language courses as electives for the A.A.

Program Requirements

- Credits in WOST or cross-listed humanities/visual arts Credits: 3
- Credits in WOST or cross-listed social science/science Credits: 3
- Additional credits in WOST or cross-listed courses Credits: 6

- WOST W210 - Introduction to Women's Studies Cr. 3.

Baccalaureate

These programs are offered by Indiana University.

Agriculture (B.S.)

Program: Transfer Programs School of Arts and Sciences

Science Building G56 ~ 260-481-6304

At IPFW, you can complete the first two years of most of the 47 Bachelor of Science programs in agriculture and forestry, the two-year preveterinary program, up to two semesters of the forestry and natural resources programs, two semesters of the preagricultural and biological engineering program, and three semesters of an associate degree program in agriculture. All agriculture degrees must be completed at the West Lafayette campus of Purdue University. The forestry and natural resources and preveterinary programs are listed alphabetically later in this part of the *Bulletin*.

All degree programs in agriculture provide balanced curricula in computer science, mathematics, physical sciences, biological sciences, communication, social sciences, humanities, international understanding or emphasis, and business, plus technical preparation in the selected area of specialization. These programs recognize the need for graduates who are prepared to function effectively in the highly technical world of modern agriculture.

The Purdue University School of Agriculture is one of the nation's highest-ranked and most-prestigious institutions of agricultural teaching, research, extension, and international programs. The West Lafayette faculty annually prepares more than 2,000 undergraduate and 500 graduate students for careers in the world's food production and distribution systems.

The IPFW agriculture program coordinator will assist you with processing intercampus transfer forms and with arranging affiliation with the appropriate West Lafayette counseling coordinator for the degree program selected. For a listing of degree programs available and additional details about all programs, you should obtain a current Bulletin of the School of Agriculture from the IPFW agriculture dean's program coordinator.

The partial requirements stated below can be completed at IPFW and apply in most B.S. programs in agriculture. Because of professional objectives and accreditation requirements, significant variations exist in some programs such as agricultural and biological engineering, biochemistry, forestry and natural resources, and landscape architecture. Students selecting these options may be able to complete only one or two semesters at IPFW.

It is highly recommended that you keep in contact with the agriculture program coordinator to remain up to date on any changes in the course requirements and to make sure that therequirements of your particular major are being met.

You may complete the following courses at IPFW:

Mathematics and Basic Sciences

- Credits in computer science Credits: 3
- Additional credits in mathematics and basic science Credits: 5

- BIOL 108 - Biology of Plants Cr. 4.
- BIOL 109 - Biology of Animals Cr. 4.
- CHM 111 - General Chemistry Cr. 3.
- CHM 112 - General Chemistry Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Written and Speech Communication

- Credits in an additional oral or written communication course Credits: 3
- Credits in English composition Credits: 6
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Broadening Electives

- Credits from an approved list of international emphasis electives Credits: 0–3
- Credits from the following social sciences: anthropology, economics, education (limited courses), political science, psychology, and sociology Credits: 3–12
- Credits from the following humanities: education (limited courses), English literature (limited courses), foreign language and literatures, history, philosophy, and fine arts Credits: 6–15
- ECON E201 - Introduction to Microeconomics Cr. 3.

Agriculture Courses Offered at IPFW

(See your advisor about appropriate selections.)

- AGR 101 - Introduction to Agriculture and Purdue Cr. 1.
- ANSC 101 - Animal Agriculture Cr. 3.
- ANSC 221 - Principles of Animal Nutrition Cr. 3.
- ENTM 206 - General Applied Entomology Cr. 2.
- ENTM 207 - General Applied Entomology Laboratory Cr. 1.
- FNR 103 - Introduction to Environmental Conservation Cr. 3.
- HORT 101 - Fundamentals of Horticulture Cr. 3.

Anthropology (B.A.)

Program: B.A

Department of Sociology and Anthropology

School of Arts and Sciences

Kettler Hall G11A ~ 260-481-6272 ~ www.ipfw.edu/soca/anthhome.htm

Courses in anthropology provide an understanding of the nature of cultures and help you assess various explanations of human behavior; they also assist in the development of analytical and critical abilities. The curriculum is structured to include studies in the history and theory of anthropology, in four anthropological fields (ethnology, archaeology, bioanthropology, and linguistics), in at least two different world ethnographic areas, and in topical specializations. The program helps you prepare for graduate study, for teaching, and for careers in which the understanding of various cultures is an asset.

Although a minor is not required for the B.A. with a major in anthropology, an outside concentration is recommended. Fifteen credits in history, political science, psychology, or sociology support the concentration.

To earn the B.A. with a major in anthropology, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and satisfactorily complete the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following:

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following:

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences

See Part 2 General Education Requirements for approved courses

- Additional credits in Area II: 3
- ANTH B200 - Bioanthropology Cr. 3.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in ANTH) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- Additional credits in anthropology courses, including two courses selected from Group A courses and two courses selected from Group B courses, below Credits: 15
- ANTH B200 - Bioanthropology Cr. 3.
- ANTH E105 - Culture and Society Cr. 3.
- ANTH H445 - History and Theory of Anthropology Cr. 3.
- ANTH L200 - Language and Culture Cr. 3.
- ANTH P200 - Introduction to Prehistoric Archaeology Cr. 3.

Group A Regional Ethnography

- ANTH E301 - Plain People of Indiana Cr. 3.
- ANTH E310 - Introduction to the Cultures of Africa Cr. 3.

- ANTH E320 - Indians of North America Cr. 3.
- ANTH E321 - Peoples of Mexico Cr. 3.
- ANTH E330 - Indians of South America Cr. 3.
- ANTH E335 - Ancient Civilizations of Mesoamerica Cr. 3.
- ANTH E341 - Culture of China Cr. 3.
- ANTH E350 - European Ethnography Cr. 3.
- ANTH E479 - Indian Cultures of Peru Cr. 3.

Group B Topics in Anthropology

- ANTH E405 - Principles of Social Organization
- ANTH E406 - Anthropological and Documentary Films
- ANTH A495 - Individual Readings in Anthropology Cr. 1-4.
- ANTH A496 - Field Study in Anthropology Cr. 3-8.
- ANTH E102 - Anthropology of America Cr. 3.
- ANTH E400 - Undergraduate Seminar Cr. 3.
- ANTH E401 - Ecology and Culture Cr. 3.
- ANTH E402 - Gender in Cross-Cultural Perspective Cr. 3.
- ANTH E420 - Economic Anthropology Cr. 3.
- ANTH E445 - Medical Anthropology Cr. 3.
- ANTH E455 - Anthropology of Religion Cr. 3.
- ANTH E462 - Anthropological Folklore Cr. 3.
- ANTH E470 - Psychological Anthropology Cr. 3.
- ANTH P220 - Rise and Fall of Ancient Civilizations Cr. 3.
- ANTH P300 - Topics in Prehistory Cr. 3.
- ANTH P360 - Archaeology of North America Cr. 3.
- ANTH P361 - Prehistory of Eastern North America Cr. 3.
- ANTH P370 - Ancient Cultures of South America Cr. 3.
- ANTH P376 - Archaeology of Death Cr. 3.
- ANTH P382 - Archaeological Research Design Cr. 3.
- ANTH P399 - Undergraduate Seminar Cr. 3.
- ANTH P400 - Archaeological Methods and Techniques Cr. 2-4.
- ANTH P405 - Fieldwork in Archaeology Cr. 1-8.
- LING L103 - Introduction to the Study of Language Cr. 3.
- LING L360 - Language in Society Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Art Education (B.A.)

Program: B.A. (All-Grade Education Program)

Department of Visual Arts/Fine Arts Program

School of Visual and Performing Arts

Visual Arts Building 117 ~ 260-481-6705 ~ www.ipfw.edu/vpa/

This degree area enables you to teach elementary, middle school/junior high or high school. A 2.5 GPA in the content field and overall are required. This program is designed to give you a solid foundation in the arts as you come to understand the role of artist/educator. The program consists of three components.

Components:	Credits
I. General Education	39
II. Content Field	51
III. Professional Education	38
Total	128

If you already hold a degree in the fine arts, it is possible to obtain certification to teach through the addition of the appropriate education courses providing you meet general university requirements. See your advisor.

IPFW General Education Requirements Credits: 39

Area I—Linguistic and Numerical Foundations Credits: 12

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

One of the following:

(grade of C or higher)

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

- BIOL 100 - Introduction to the Biological World Cr. 3.

or

- BIOL 250 - Women and Biology Cr. 3.

One of the following: Credits: 3

- astronomy, chemistry, geology, physics, bioanthropology

Area III—The Individual, Culture, and Society Credits: 6

One of the following Credits: 3

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

One of the following cultural diversity classes Credits: 3

- AFRO A210 - The Black Woman in America Cr. 3.
- ANTH E105 - Culture and Society Cr. 3.
- ANTH L200 - Language and Culture Cr. 3.
- COM 303 - Intercultural Communication Cr. 3.
- ENG L364 - Native American Literature Cr. 3.

Area IV—Humanistic Thought Credits: 9

See Part 2 General Education Requirements for approved courses

- H111 may be double-counted as third course in this area.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses (No VCD or FINA courses)

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Visual and Performing Arts Requirements

II. Content Field:

Art History Credits: 6

- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.

Foundation Courses Credits: 12

- FINA P121 - Drawing Fundamentals I-II Cr. 3.
- FINA P122 - Drawing Fundamentals I-II Cr. 3.
- FINA P151 - Design Fundamentals I-II Cr. 3.
- FINA P152 - Design Fundamentals I-II Cr. 3.

2D Studio Elective Credits: 12

- VCD P273 - Computer Art and Design I Cr. 3.

Choose three courses from: Credits: 9

- FINA P223 - Figure Drawing I Cr. 3.
- FINA P225 - Painting Fundamentals I Cr. 3.
- FINA P241 - Printmaking Fundamentals Cr. 3.
- FINA P321 - Advanced Drawing I Cr. 3.
- VCD P243 - Photography Fundamentals Cr. 3.

3D Studio Elective Credits: 6

Choose two courses from the following:

- FINA P231 - Sculpture Fundamentals Cr. 3.
- FINA P233 - Metalsmithing Fundamentals Cr. 3.
- FINA P235 - Ceramics Fundamentals Cr. 3.

Studio Area of Concentration (300–400 level FINA or VCD) Credits: 15

Professional Education Credits: 38

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2

Portfolio Checkpoint

- PPST (Pre-Professional Skills Test)
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1

- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
(Credits: 0, field experience required)
- EDUC W200 - Using Computers for Education Cr. 1.
Admission to the TEP is required for remaining courses.

Block 1: Teacher Education Credits: 9

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3

Portfolio Checkpoint

Block 2: Professional Education Credits: 12

- *Complete a limited criminal history check*
- EDUC M330 - Foundations of Art Education and Methods I Cr. 3
(field experience required)
- EDUC P254 - Educational Psychology for Teachers of All Grades Cr. 1-4.
(Credits: 3, field experience required)
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

Portfolio Checkpoint

- EDUC M430 - Foundations of Art Education and Methods II Cr. 3
(field experience required)

Student Teaching Credits: 13

- 10 week+6 week combination
(Complete an application for student teaching one year before intended student teaching semester)
- EDUC M501 - Lab/field Experience
- EDUC M482 - Student Teaching: All Grades Cr. 1-16.
Credits: 13

Final Portfolio Checkpoint

Take state subject area exam and meet requirement levels. Courses that must be taken in prescribed blocks.

Semester I

- EDUC M330 - Foundations of Art Education and Methods I Cr. 3
(fall)

Semester II

- EDUC M430 - Foundations of Art Education and Methods II Cr. 3
(spring)

Semester III

- EDUC M501 - Lab/field Experience
- EDUC M482 - Student Teaching: All Grades Cr. 1-16.

Admission to Teacher Education Program:

1) 2.5 GPA overall; 2.5 GPA in major

2) Submission of art portfolio for admission to art education

After the first two years have been completed

3) Completion of/or enrollment in prerequisites

B or higher required in these education classes

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- EDUC W200 - Using Computers for Education Cr. 1.
- ENG W131 - Elementary Composition I Cr. 3.

4) Minimum of C or higher in one of the following

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

5) Meet current PPST Test Qualification Scores

Biology (B.S.)

Program: B.S.

Department of Biology

School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

Special Regulation for Biology Majors

Time Limit All biology courses applied toward graduation must be completed within 10 years from the time the first biology course was completed.

To earn a B.S. with a major in biology, you must fulfill the requirements of IPFW and of the School of Arts and Sciences (see Parts 3 and 7); earn a GPA of 2.30 or higher in BIOL 117, 119, 217, 218, 219, and 491 and in A/B-elective courses in biology (listed below); and complete the following courses:

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- MA Mathematics course approved 3 for IPFW General Education Area I
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
(credits included in Biology Core, below)
- CHM 115 - General Chemistry Cr. 4.
(credits included in Supporting Courses, below)

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis

One of the following Credits: 0

(credits included in Supporting Courses, below):

- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 321 - Analytical Chemistry I Cr. 4.

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 8

Core and Concentration (Major) Courses

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.
- BIOL 491 - Senior Biology Seminar Cr. 1.

Supporting Courses

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CS 106 - Introduction to Computers Cr. 3.

One of the following sequences Credits: 8

- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
and
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.

Or Select Either:

- CHM 254 - Organic Chemistry Laboratory Cr. 1.
and
- CHM 261 - Organic Chemistry Cr. 3.

And:

- CHM 258 - Organic Chemistry Laboratory Cr. 1.
and
- CHM 262 - Organic Chemistry Cr. 3.

Calculus and Statistics

The following calculus and statistics course pattern is typical. Course substitutions are possible with advisor approval. Please note that most graduate programs require a full year of calculus.

- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- STAT 240 - Statistical Methods for Biology Cr. 3.
- STAT 340 - Elementary Statistical Methods II Cr. 3.

One of the following sequences Credits: 8–10

- PHYS 201 - General Physics I Cr. 5.
and
- PHYS 202 - General Physics II Cr. 5.
or
- PHYS 220 - General Physics Cr. 4.
and
- PHYS 221 - General Physics Cr. 4.

General Elective Courses Credits: 16

In the interest of broadly training our majors, students are required to take at least one course with *laboratory* from each of the A and B elective course lists below. The A elective courses focus on topics regarding the intact organism and its interaction with the

environment, and so are organismal, population, community, and ecosystem in nature. The B elective courses focus on processes acting within the organism, and thus detail molecular, cellular, and organ-system mechanisms.

A-Electives

(organismal, population, community, and ecosystem)

- BIOL 335 - Animal Behavior Cr. 3.
with laboratory
- BIOL 336 - Animal Behavior Lab Cr. 1.
- BIOL 345 - Vertebrate Biology Cr. 4.
with laboratory
- BIOL 434 - Marine Community Ecology Cr. 3.
with laboratory
- BIOL 445 - Aquatic Biology Cr. 3.
with laboratory
- BIOL 502 - Conservation Biology Cr. 3.
- BIOL 505 - Biology of Invertebrate Animals Cr. 3.
with laboratory
- BIOL 543 - Population Ecology Cr. 4.
with laboratory
- BIOL 556 - Physiology I Cr. 3.
with laboratory
- BIOL 558 - Laboratory in Physiology Cr. 2.
- BIOL 579 - Fate of Chemicals in the Environment Cr. 4.
with laboratory
- BIOL 580 - Evolution Cr. 3.
- BIOL 582 - Ecotoxicology Cr. 3.
- BIOL 586 - Topics in Behavior and Ecology Cr. 3.
- BIOL 592 - The Evolution of Behavior Cr. 3.
- BIOL 598 - Biology of Fish Cr. 4.
with laboratory
- ENTM 206 - General Applied Entomology Cr. 2.
with laboratory
- ENTM 207 - General Applied Entomology Laboratory Cr. 1.
- FNR 523 - Aquaculture Cr. 3.

B-Electives

(molecular, cellular, and organ-system)

- BIOL 215 - Basic Human Anatomy Cr. 4.
with laboratory
- BIOL 315 - Developmental Anatomy Cr. 4.
with laboratory
- BIOL 350 - Plant Physiology Cr. 4.
with laboratory
- BIOL 381 - Cell Biology Cr. 3.
with laboratory
- BIOL 382 - Laboratory in Cell Biology Cr. 1.

- BIOL 437 - General Microbiology Cr. 4.
with laboratory
- BIOL 506 - Human Molecular Genetics Cr. 3.
- BIOL 515 - Molecular Genetics Cr. 3.
- BIOL 516 - Molecular Biology of Cancer Cr. 3.
- BIOL 533 - Medical Microbiology Cr. 3.
- BIOL 540 - Biotechnology Cr. 3.
- BIOL 544 - Principles of Virology Cr. 3.
- BIOL 546 - Principles of Virology Laboratory Cr. 1.
- BIOL 559 - Endocrinology Cr. 3.
- BIOL 566 - Developmental Biology Cr. 3.
with laboratory
- BIOL 567 - Laboratory in Developmental Biology Cr. 1.

Or Select:

- BIOL 509 - Molecular Biology and Applications Cr. 3.
with laboratory
- BIOL 584 - Molecular Biology and Applications Laboratory Cr. 1.

Or Select:

- BIOL 537 - Immunobiology Cr. 3.
with laboratory
- BIOL 565 - Immunobiology Laboratory Cr. 1.

Free Electives

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Biology with Life Science Teaching Certification (B.S.)

Program: B.S.

Department of Biology

School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

The study of biology is an excellent way to prepare for a career in teaching because it provides the student with a solid foundation in science as well as in teaching. Students who plan to earn a B.S. with a major in biology with life science teaching certification should consult regularly with the coordinator of advising of the School of Education.

To earn a B.S. with a major in biology with life science teaching certification, you must fulfill the requirements specified by the IPFW School of Education and fulfill the requirements of IPFW and of the School of Arts and Sciences with the exception of the foreign language requirement (see Parts 3 and 7).

The School of Education requires that you first complete EDUA F300, EDUC W200/M101, and EDUC K201 before you are permitted to take professional education courses. Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

To be eligible to apply for teacher licensure, you must earn a GPA of 2.00 or higher in each general education area. You should work closely with your advisor to ensure completion of general education requirements for teacher licensing. You must also earn a cumulative GPA of 2.50 or higher in your major area and the professional education courses. Each professional education course must be completed with a grade of C or better.

Students who qualify may elect to do an independent project supervised by a faculty member. Credits earned in these courses (BIOL 295 or BIOL 595) cannot be used to satisfy A/B-elective requirements.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- MA Mathematics course approved for IPFW General Education Area I Credits: 3
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- CHM 115 - General Chemistry Cr. 4.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

- See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis

One of the following Credits: 0

(credits included in Supporting Courses, below)

- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 321 - Analytical Chemistry I Cr. 4.

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Core and Concentration (Major) Courses

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.
- BIOL 491 - Senior Biology Seminar Cr. 1.

Supporting Courses (40–42 credits)

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- CS 106 - Introduction to Computers Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- STAT 240 - Statistical Methods for Biology Cr. 3.
- STAT 340 - Elementary Statistical Methods II Cr. 3.

One of the following Credits: 4

- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 321 - Analytical Chemistry I Cr. 4.

One of the following sequences Credits: 8–10

- PHYS 201 - General Physics I Cr. 5.
- PHYS 202 - General Physics II Cr. 5.
- PHYS 220 - General Physics Cr. 4.
- PHYS 221 - General Physics Cr. 4.

General Elective Courses (10–12 credits)

You must complete at least one course with a laboratory in each group.

A-Electives

(organismal, population, community, and ecosystem)

- BIOL 335 - Animal Behavior Cr. 3.
course with a laboratory
- BIOL 336 - Animal Behavior Lab Cr. 1.
- BIOL 345 - Vertebrate Biology Cr. 4.
course with a laboratory
- BIOL 434 - Marine Community Ecology Cr. 3.
course with a laboratory
- BIOL 445 - Aquatic Biology Cr. 3.
course with a laboratory
- BIOL 502 - Conservation Biology Cr. 3.
- BIOL 505 - Biology of Invertebrate Animals Cr. 3.
course with a laboratory
- BIOL 543 - Population Ecology Cr. 4.
course with a laboratory
- BIOL 556 - Physiology I Cr. 3.
course with a laboratory
- BIOL 558 - Laboratory in Physiology Cr. 2.
- BIOL 579 - Fate of Chemicals in the Environment Cr. 4.
course with a laboratory
- BIOL 580 - Evolution Cr. 3.
- BIOL 582 - Ecotoxicology Cr. 3.
- BIOL 586 - Topics in Behavior and Ecology Cr. 3.
- BIOL 592 - The Evolution of Behavior Cr. 3.
- BIOL 598 - Biology of Fish Cr. 4.
course with a laboratory
- ENTM 206 - General Applied Entomology Cr. 2.
course with a laboratory

- ENTM 207 - General Applied Entomology Laboratory Cr. 1.
- FNR 523 - Aquaculture Cr. 3.

B-Electives

(molecular, cellular, and organ-system)

- BIOL 215 - Basic Human Anatomy Cr. 4.
course with a laboratory
- BIOL 315 - Developmental Anatomy Cr. 4.
course with a laboratory
- BIOL 350 - Plant Physiology Cr. 4.
course with a laboratory
- BIOL 381 - Cell Biology Cr. 3.
course with a laboratory
- BIOL 382 - Laboratory in Cell Biology Cr. 1.
- BIOL 437 - General Microbiology Cr. 4.
course with a laboratory
(required)
- BIOL 455 - Animal Physiology Cr. 3.
course with a laboratory
- BIOL 456 - Laboratory in Animal Physiology Cr. 1.
- BIOL 506 - Human Molecular Genetics Cr. 3.
- BIOL 515 - Molecular Genetics Cr. 3.
- BIOL 516 - Molecular Biology of Cancer Cr. 3.
- BIOL 533 - Medical Microbiology Cr. 3.
- BIOL 540 - Biotechnology Cr. 3.
- BIOL 544 - Principles of Virology Cr. 3.
- BIOL 546 - Principles of Virology Laboratory Cr. 1.
- BIOL 559 - Endocrinology Cr. 3.
- BIOL 566 - Developmental Biology Cr. 3.
course with a laboratory
- BIOL 567 - Laboratory in Developmental Biology Cr. 1.
- BIOL 569 - Cellular Neurobiology Cr. 3.

And Select:

Credits: 3-4

- BIOL 509 - Molecular Biology and Applications Cr. 3.
course with a laboratory
- BIOL 584 - Molecular Biology and Applications Laboratory Cr. 1.

And Select:

Credits: 3-4

- BIOL 537 - Immunobiology Cr. 3.

course with a laboratory

- BIOL 565 - Immunobiology Laboratory Cr. 1.

School of Education Requirements (35 credits)

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC M401 - Laboratory/Field Experience Cr.0-3.
and
- EDUC M449 - Methods of Teaching Science in the Secondary Schools Cr. 3.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.

And Select:

Credits: 3

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- PHIL 250 - Inductive Logic Cr. 3.

And Select:

Credits: 3

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

Total Credits: 131–135

Business (B.S.B.)

Program: B.S.B.

SBMS Undergraduate Student Affairs Center

Richard T. Doermer School of Business and Management Sciences

Neff Hall 366 ~ 260-481-6472 ~ www.ipfw.edu/bms

The faculty of the Richard T. Doermer School of Business and Management Sciences believe that quality in product and services, competitiveness in the global marketplace, and professionalism are critical to business success. As a result, the undergraduate business curriculum is designed around the principles of competitiveness, quality, and professionalism. Faculty members are dedicated to the development of business professionals who have the knowledge and skills to contribute effectively to their organizations and community.

A significant portion of the B.S.B. curriculum is composed of courses that provide a basic understanding of principles and practices involved in the management of business firms. Another large component, slightly more than half of your credits, is the general education core. These courses provide a well-rounded background necessary for success in a diverse business environment. Further, in order to ensure a balanced educational program, the business curriculum offers ample opportunities to take courses in a specific concentration area of interest to you.

The B.S.B. program is accredited by the International Association for Management Education (AACSB), which provides a voluntary mechanism of quality control. AACSB is the most prestigious business accrediting body in the nation. Only about one-quarter of all business schools in the nation possess this distinction.

Your initial courses are selected from introductory-level general education, business, and economics subjects. When you have qualified for admission to the B.S.B. program, additional opportunities are provided for in-depth studies in a variety of advanced business, management, and analytical subjects. These advanced studies help you prepare for positions of increasing executive responsibility in the business community.

Upon completion of the B.S.B. curriculum, you should:

- understand and be able to integrate fundamental principles of business theory and practice in a dynamic environment.
- have the analytical skills necessary for sound business decisions.
- be able to understand the relationship between the macro environment and business.
- be able to demonstrate effective communication and appreciate the role and importance of teamwork.
- be prepared for lifelong learning.
- understand the global, ethical, and cultural implications of business decisions.

At the time you are admitted to the B.S.B. program, you must declare a specialization in one of five concentrations: accounting, business economics, finance, management and administration, or marketing.

Admission

Beginning students who qualify for regular admission to IPFW are assigned to Academic Counseling and Career Services (ACCS, Kettler 110E, 481-6814) as prebusiness majors to complete the freshman degree requirements, consisting of 30 credits that apply to the degree, including BUS W100, ENG W131, COM 114, PSY 120, SOC S161, and if required, MA 153. Upon completion of these 30 credits with a minimum cumulative GPA of 2.00, you may then request a transfer to the Richard T. Doermer School of Business and Management Sciences to complete the requirements for admission to the degree program. High-school applicants who rank in the top half of their class and receive a score of 950 or higher on the SAT I are granted admission directly into the Richard T. Doermer School of Business and Management Sciences as prebusiness majors, to complete the freshman degree requirements.

To be admitted to the B.S.B. program, a formal application for admission is required; applications are available in Neff 366. Successful applicants will have a cumulative GPA of 2.00 or higher and will have completed at least 60 credits that apply toward the degree, including the courses listed below. Within this course listing, successful applicants will have (1) a grade of C or better in each course marked with an * and (2) a GPA of 2.30 or better (the grade for ENG W131 is not included in this GPA calculation).

Courses Specifically Required for Admission to the B.S.B. Program

Course Number and Title		Credits
BUS A201*	<i>Principles of Financial Accounting</i>	3
BUS A202*	<i>Principles of Managerial Accounting</i>	3
BUS K211*	<i>Spreadsheets for Business</i>	1
BUS K212*	<i>Introduction to Database Management</i>	1
BUS K213*	<i>Internet Access and Data Analysis for Business</i>	1
BUS L200*	<i>Elements of Business Law</i>	3
BUS W204*	<i>Social, Legal, and Ethical Implications of Business Decisions</i>	3
COM 114	<i>Fundamentals of Speech Communication</i>	3
ECON E201*	<i>Introduction to Microeconomics</i>	3
ECON E202*	<i>Introduction to Macroeconomics</i>	3
ECON E270*	<i>Introduction to Statistical Theory in Economics and Business I</i>	3
ENG W131*	Elementary Composition I (or equivalent)	3
ENG W233*	<i>Intermediate Expository Writing</i>	3
MA 229	<i>Calculus for the Managerial, Social, and Biological Sciences I</i>	3
PSY 120	<i>Elementary Psychology</i>	3
SOC S161	<i>Principles of Sociology</i>	3

Two additional rules apply to applicants' progress through the above courses:

- No more than 6 credits of these courses may be repeated, and no course may be repeated more than once.
- Both the original and the repeat grades earned in the above courses will be used to compute the admission GPA. This includes courses that you have taken or repeated at IPFW and other IU campuses. Students who transfer in more than 20 credits of the 42 credits listed will be admitted to the B.S.B. program on a probationary basis.

Note:

Bachelor's degree programs in business are offered at other Indiana University and IU-Purdue campuses. Since admission and graduation requirements vary among these campuses, you must meet the admission and graduation requirements of the campus from which you intend to graduate.

Enrollment in Business Courses Numbered 300 and Above

Unless you have attained junior class standing and met at least one of the following conditions, you are not permitted to enroll in a business course numbered 300 or above:

- You have been admitted to the B.S.B. program at IPFW.
- The course is a specified requirement for another bachelor's degree program or minor in which you are enrolled and you have completed all course prerequisites.
- You have obtained written permission from the department through which the course is offered.

If you have enrolled and are not eligible, you will be withdrawn from the course.

B.S.B. REQUIREMENTS

Many of the courses required for this degree are sequenced, and many are offered only in alternate semesters. Therefore, regardless of the number of credits you may have earned prior to admission to the B.S.B. program, the school cannot guarantee that you will be able to complete all degree requirements in fewer than four regular semesters after admission.

To earn the B.S.B., you must complete a minimum of 123 credits as specified below. You must satisfy the requirements of IPFW (see Part 7) and the Richard T. Doermer School of Business and Management Sciences, earn a grade of C or better in those courses marked with an * above, earn a grade of C or better in each BUS and ECON course, and complete the four categories of requirements described below. Developmental courses (e.g., ENG R150, R151, and W130; MA 109, 111, and 113) do not apply to degree requirements.

Your final consecutive 30 credits must be taken at IPFW after you have been formally admitted to the B.S.B. program. No more than 50 percent of the 123 credits may be in business or economics courses.

IPFW General Education Requirements (53 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
(grade of C or better required)

One of the following Credits: 3

(grade of C or better required)

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Area IV—Humanistic Thought Credits: 6

- Additional credits in approved Area IV courses: 3
- PHIL 111 - Ethics Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

SBMS Requirements

- Additional credits in general education courses excluding business, economics, and OLS courses Credits: 8
- COM 323 - Business and Professional Speaking Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
(grade of C or better required)
- ENG W331 - Business and Administrative Writing Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
(if not used in Area I)

Core and Concentration (Major) Courses (46 credits)

Business Principles (16 credits)

- BUS A201 - Principles of Financial Accounting Cr. 3.
- BUS A202 - Principles of Managerial Accounting Cr. 3.
- BUS K211 - Spreadsheets for Business Cr. 1.
- BUS K212 - Introduction to Database Management Cr. 1.
- BUS K213 - Internet Literacy for Business Cr. 1.
- BUS L200 - Elements of Business Law Cr. 1.

- BUS W204 - Social, Legal, and Ethical Implications of Business Decisions Cr. 3.

Economics Principles (9 credits)

- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.
- ECON E270 - Introduction to Statistical Theory in Economics and Business I Cr. 3.

Management Processes (15 credits)

- BUS F301 - Financial Management Cr. 3.
- BUS J300 - Business Forum-Current Topics in Competitiveness, Quality, and Professionalism Presented by Business Leaders Cr. 0.
- BUS K321 - Management of Information Technology Cr. 3.
- BUS M301 - Marketing Management in a Competitive Environment Cr. 3.
- BUS P301 - Managing Operations in a Competitive Environment Cr. 3.
- BUS Z302 - Management of Organizations and People Cr. 3

Management Policy and Strategy (6 credits)

- BUS J401 - Policy and Strategy Cr. 3.
- BUS W430 - Leadership, Teamwork, and Group Dynamics in Organizations Cr. 3.

Area Concentration Credits: 12–24

12–24 credits in an Area Concentration: Upon admission to the B.S.B. program, you will select one of the following five concentrations. While you may change your concentration at any time during your degree program, changes made after your junior year may result in exceeding the 123 credits required to complete your degree. Specific concentration requirements are listed below.

General Elective Courses Credits: 0–12

0–12 sufficient credits from either business or nonbusiness courses, excluding organizational leadership and supervision courses, to complement your professional and education objective and bring your degree total to at least 123 credits.

Total Credits: 123

Chemistry (B.S.)

Program: B.S.

Department of Chemistry

School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

The Bachelor of Science with a major in chemistry program is appropriate for premedical and pre dental students and as preparation for other careers. With appropriate electives and further education, this program allows you to combine chemistry with other fields of study that support careers such as geochemist, computer scientist, biologist, science librarian, science writer, chemical salesperson, patent attorney, industrial chemist, or environmental chemist.

To earn the B.S. with a major in chemistry, in addition to satisfying the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), you must complete the following courses with a cumulative GPA of 2.00 or higher in all CHM courses numbered 300 and above:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
(credits included in Supporting Courses, below)

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- CHM 115 - General Chemistry Cr. 4.
(credits included in Major Courses, below)
- PHYS 152 - Mechanics Cr. 5.
(credits included in Supporting Courses, below)

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in CHM) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Credits in a modern foreign language Credits: 8

Core and Concentration (Major) Courses

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 213 - Chemical Literature Cr. 1.
- CHM 218 - Introduction to Inorganic Chemistry Cr. 3.
- CHM 261 - Organic Chemistry Cr. 3.
- CHM 262 - Organic Chemistry Cr. 3.
- CHM 265 - Organic Chemistry Laboratory Cr. 2.
- CHM 266 - Organic Chemistry Laboratory Cr. 2.
- CHM 321 - Analytical Chemistry I Cr. 4.
- CHM 342 - Inorganic Chemistry Cr. 3.
- CHM 376 - Physical Chemistry Laboratory Cr. 2.
- CHM 383 - Physical Chemistry Cr. 4.
- CHM 384 - Physical Chemistry Cr. 2.
- CHM 424 - Analytical Chemistry II Cr. 4.
Not required for premedicine, premedical, physical science teaching or chemistry teaching certification options.

One of the following Credits: 1

- CHM 495 - Seminar in Chemistry Cr. 1.
- CHM 496 - Advances in Chemistry I Cr. 0.
- CHM 497 - Advances in Chemistry II Cr. 1.

Supporting Courses

- Credits in CS 106, 160, or 210, or equivalent Credits: 3
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.

Free Electives

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Premedicine Option

In addition to the requirements for the B.S. with a major in chemistry, students pursuing the premedicine option must take the following courses:

- CHM 533 - Introductory Biochemistry Cr. 3
- CHM 534 - Introductory Biochemistry Cr. 3.

One of the following sequences Credits: 8

- BIOL 108 - Biology of Plants Cr. 4.
- BIOL 109 - Biology of Animals Cr. 4.
- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.

Additional Credits: 14

Predental Option

In addition to the requirements for the B.S. with a major in chemistry, students pursuing the predental option must take the following courses:

- CHM 533 - Introductory Biochemistry Cr. 3
- PSY 120 - Elementary Psychology Cr. 3.

One of the following sequences Credits: 8

- BIOL 108 - Biology of Plants Cr. 4.
 - BIOL 109 - Biology of Animals Cr. 4.
- or
- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
 - BIOL 119 - Principles of Structure and Function Cr. 4.

One of the following Credits: 4

- BIOL 215 - Basic Human Anatomy Cr. 4.
- BIOL 315 - Developmental Anatomy Cr. 4.

One of the following Credits: 4

- BIOL 216 - Basic Mammalian Physiology Cr. 4.
- BIOL 455 - Animal Physiology Cr. 3.
- BIOL 456 - Laboratory in Animal Physiology Cr. 1.

Additional Credits: 19

Chemistry (B.S.C.)

Program: B.S.C.

Department of Chemistry

School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

The Bachelor of Science in Chemistry (B.S.C.) program helps you prepare for graduate study in chemistry and chemistry-related careers in industry or government. Providing the best preparation for any career involving chemical research, this program fulfills recommendations of the Committee on Professional Training of the American Chemical Society, and graduates are certified to the ACS as having fulfilled its requirements.

To earn the B.S.C., you must fulfill all requirements for the B.S. with a major in chemistry (listed above) and complete the additional courses listed below.

Degree Requirements

- CHM 343 - Inorganic Chemistry Laboratory Cr. 1.
- CHM 533 - Introductory Biochemistry Cr. 3
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.

Additional credits from the following Credits: 3

or other departmentally approved advanced courses in chemical engineering, computer science; geochemistry, surface chemistry, mathematics, molecular biology, physics, and other allied fields

- CHM - courses numbered 300 and above
- CS 384 - Numerical Analysis Cr. 3.
- PHYS 550 - Introduction to Quantum Mechanics Cr. 3.

Additional Credits: 17

Biochemistry Option

The Bachelor of Science in Chemistry (B.S.C.) with biochemistry option helps you prepare for graduate study in biochemistry, and for biochemically oriented careers, particularly in the pharmaceutical and health industries. This program fulfills recommendations of the Committee on Professional Training of the American Chemical Society, and graduates are certified to the ACS as having fulfilled the requirements.

To earn the B.S.C. biochemistry option, you must fulfill all requirements for the B.S. with a major in chemistry (listed above) and complete the additional courses listed below.

- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- CHM 533 - Introductory Biochemistry Cr. 3
- CHM 534 - Introductory Biochemistry Cr. 3.
- CHM 535 - Biochemistry Laboratory Cr. 1.

The following is highly recommended:

- CHM 499 - Special Assignments Cr. 1-5

Additional Credits: 16-20

Chemistry with Chemistry Teaching Certification (B.S.)

Program: B.S.

Department of Chemistry

School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

To earn the B.S. with a major in chemistry teaching certification, you must fulfill all requirements (listed earlier) for the B.S. with a major in chemistry (except for foreign language, and you must complete ENG W233 as your writing requirement) and satisfactorily complete the courses listed below.

The School of Education requires that you first complete EDUA F300, EDUC W200/M101, and EDUC K201 before you are permitted to take professional education courses. Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

To be eligible to apply for teacher licensure, you must earn a GPA of 2.00 or higher in each general education area. You should work closely with your advisor to ensure completion of general education requirements for teacher licensing. You must also earn a cumulative GPA of 2.50 or higher in your major area and the professional education courses. Each professional education course must be completed with a grade of C or better.

School of Education Requirements

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 1
- EDUC W200 - Using Computers for Education Cr. 1.
Credits: 1

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M401 - Laboratory/Field Experience Cr.0-3.
Credits: 3
- EDUC M449 - Methods of Teaching Science in the Secondary Schools Cr. 3.

Credits: 3

- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.

Credits: 12

- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.

Credits: 3

- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.

Credits: 3

And Select:

Credits: 3

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.

Credits: 3

- EDUC P250 - General Educational Psychology Cr. 1-4.

Credits: 3

And Select:

Credits: 3

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.

Credits: 3

- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

Credits: 3

Additional Credits: 37

Computer Art, Graphic Design, or Photography (B.F.A.)

Program: B.F.A.

Department of Visual Arts, VCD Program

School of Visual and Performing Arts

Visual Arts Building 213 ~ 260-481-6709 ~ www.ipfw.edu/vpa

The Bachelor of Fine Arts program includes general education, art/design history, visual art, and design studio courses and offers concentrations in computer art, graphic design, and photography.

Students are eligible for admission to the B.F.A. major after (1) completing 45 credits of study with a cumulative G.P.A. of 2.0 or higher and a grade of C or better in each VCD course and (2) receiving approval for admission by the faculty after a portfolio review. A student may not enroll in any course numbered 300 or above until these criteria are met.

Admission

The student must meet the requirements of IPFW. Admission to the Department of Visual Arts does not confer acceptance to the B.F.A. major. Newly admitted students are assigned to either a pre-B.F.A. or A.S. program. Later acceptance to the B.F.A. area of concentration is dependent upon satisfying the requirements of a portfolio review.

IPFW General Education Requirements Credits: 33

Area I—Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

- Quantitative reasoning course Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VII—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Art/Design History Credits: 12

- Credits in art/design history courses numbered 300 or above: 6
- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.

Area of Concentration: Studio and Electives Credits: 75

Computer Art

- Studio Electives in VCD or FINA Credits: 24
- FINA P151 - Design Fundamentals I-II Cr. 3.
- FINA P152 - Design Fundamentals I-II Cr. 3.
- PHIL 275 - The Philosophy of Art Cr. 3.
- PHYS 125 - Light and Color Cr. 3.
- VCD P243 - Photography Fundamentals Cr. 3.
- VCD P273 - Computer Art and Design I Cr. 3.
- VCD P356 - Package Design Cr. 3.
- VCD P357 - Display and Design Cr. 3.
- VCD P374 - Computer Art and Design II Cr. 3.
- VCD P475 - Computer Art and Design III Cr. 3.
- VCD P476 - Three-Dimensional Computer Modeling Cr. 3
- VCD P478 - Computer Animation Cr. 3.
- VCD P495 - Independent Study in Fine Arts Cr. 3.

Graphic Design

- Studio Electives in VCD or FINA Credits: 15
- FINA P226 - Painting Fundamentals II Credits: 3
- FINA P121 - Drawing Fundamentals I-II Cr. 3.
- FINA P122 - Drawing Fundamentals I-II Cr. 3.
- FINA P151 - Design Fundamentals I-II Cr. 3.
- FINA P152 - Design Fundamentals I-II Cr. 3.
- VCD P253 - Principles of Graphic Design I Cr. 3.
- VCD P254 - Principles of Graphic Design II Cr. 3.
- VCD P261 - Layout and Finished Art Cr. 3.
- VCD P271 - Illustration I Cr. 3.
- VCD P272 - Illustration II Cr. 3.
- VCD P273 - Computer Art and Design I Cr. 3.
- VCD P356 - Package Design Cr. 3.
- VCD P357 - Display and Design Cr. 3.
- VCD P371 - Illustration III Cr. 3.
- VCD P372 - Illustration IV Cr. 3.
- VCD P374 - Computer Art and Design II Cr. 3.
- VCD P453 - Graphic Design III Cr. 3.
- VCD P454 - Graphic Design IV Cr. 3.
- VCD P475 - Computer Art and Design III Cr. 3.
- VCD P495 - Independent Study in Fine Arts Cr. 3.
(or additional studio)

Photography

- Studio Electives in VCD or FINA Credits: 30
- FINA P151 - Design Fundamentals I-II Cr. 3.
- FINA P152 - Design Fundamentals I-II Cr. 3.
- PHIL 275 - The Philosophy of Art Cr. 3.
- PHYS 125 - Light and Color Cr. 3.
- VCD P273 - Computer Art and Design I Cr. 3.
- VCD P343 - Advanced Photography I Cr. 3.
- VCD P344 - Advanced Photography II Cr. 3.
- VCD P374 - Computer Art and Design II Cr. 3.
- VCD P443 - Advanced Photography III Cr. 3.
- VCD P444 - Advanced Photography IV Cr. 3.
- VCD P475 - Computer Art and Design III Cr. 3.
- VCD P495 - Independent Study in Fine Arts Cr. 3.
(or additional studio)

Senior Project Credits: 6

Majors must complete a senior project in the elected area of concentration. This two-semester course requires of the student a project incorporating an in-depth study and exploration of an artistic endeavor. The senior project culminates in a B.F.A. thesis exhibition that is judged by the faculty and reviewed by the public. An artist's statement and project description is a requirement of the exhibition installation.

- VCD P450 - Senior Project Cr. 3.

Computer Engineering (B.S.Comp.E.)

Program: B.S.Comp.E.

Department of Engineering

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 327 ~ 260-481-6362 ~ www.engr.ipfw.edu

Degree Requirements

To earn the B.S.Comp.E. at IPFW, you must satisfy the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3); follow the special academic regulations that appear at the end of this section; and satisfactorily complete the following courses:

IPFW General Education Requirements Credits: 36

Area I—Linguistic and Numerical Foundations Credits: 10

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.

*

Area II—Natural and Physical Sciences Credits: 9

- CHM 115 - General Chemistry Cr. 4.
- PHYS 152 - Mechanics Cr. 5.

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses with the exception of IET 105.

- ECON E201 - Introduction to Microeconomics Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses.

Area V—Creative and Artistic Expression Credits: 2

- ENGR 120 - Graphical Communications and Spatial Analysis Cr. 2.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses with the exception of MA 314, PHYS 325, and STAT 340.

Freshman Engineering Credits: 6

- ENGR 101 - Introduction to Engineering Cr. 1.
- ENGR 121 - Computer Tools for Engineers Cr. 2.
- ENGR 199 - Introduction to Engineering Design Cr. 3.

Mathematics and Science Requirements Credits: 22

- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- MA 275 - Intermediate Discrete Math Cr. 3.

- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.

Core and Concentration (Major) Courses Credits: 49

- ECE 293 - Measurement and Instrumentation Laboratory Credits: 2
- ECE 387 - Electronics and System Engineering through Robotics Credits: 3
- ECE 388 - Electronics and System Engineering through Robotics Lab Credits: 3
- ENGR 222 - Object Oriented Programming Credits: 1
- ECE 201 - Linear Circuit Analysis I Cr. 3.
- ECE 202 - Linear Circuit Analysis II Cr. 3.
- ECE 270 - Introduction to Digital System Design Cr. 4.
- ECE 301 - Signals and Systems Cr. 3.
- ECE 302 - Probabilistic Methods in Electrical Engineering Cr. 3.
- ECE 358 - Introduction to VHDL Programing Cr. 3.
- ECE 362 - Microprocessor Systems and Interfacing Cr. 4.
- ECE 368 - Data Structures Cr. 3.
- ECE 405 - Senior Engineering Design I Cr. 3.
- ECE 406 - Senior Engineering Design II Cr. 3.
- ECE 437 - Computer Design and Prototyping Cr. 4.
- ECE 495 - Selected Topics in Electrical Engineering Cr. 1-4.
Credits: 4
- ENGR 221 - C and C++ Programming for Engineers Cr. 2.

Required Mechanical Engineering Courses Credits: 3

- ME 200 - Thermodynamics I Cr. 3.

Technical Elective Courses Credits: 12

Computer Engineering Electives

- ECE 495X- Wireless and Mobile Communication Systems Credits: 3
- ECE 495Z- Cryptography and Network Security Credits: 3
- CS 360 - Software Engineering Cr. 3.
or ECE 351- Software Engineering Cr. 3
- ECE 373 - Numerical Methods for Engineers Cr. 3.
- ECE 418 - Introduction to Computer Graphics Cr. 3.
or CS 321- Introduction to Computer Graphics Cr. 3
- ECE 465 - Embedded Microprocessors Cr. 3.
- ECE 547 - Introduction to Computer Communication Networks Cr. 3.

Engineering Electives

- ECE 311 - Electric and Magnetic Fields Cr. 3.
- ECE 382 - Feedback System Analysis and Design Cr. 3.
- ECE 436 - Digital Signal Processing Cr. 3.
- ECE 442 - Transmission of Information Cr. 3.
- ECE 483 - Digital Control Systems - Analysis and Design Cr. 3.
- ME 301 - Thermodynamics II Cr. 3.

Mathematics and Science Technical Electives

- MA 417 - Mathematical Programming Cr. 3.
- MA 418 - Computations Laboratory for MA 417 Cr. 1.
- PHYS 322 - Optics Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 345 - Optics Laboratory I Cr. 1.
- PHYS 550 - Introduction to Quantum Mechanics Cr. 3.

Total Credits: 128

Computer Engineering Technology (B.S.)

Program: B.S.

Department of Electrical and Computer Engineering Technology

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

The main objective of the B.S. CPET program is to provide training for individuals who are seeking careers in designing, developing, programming, and implementing computer-based electronic systems, with an emphasis on computer networking. These computer-based electronic systems include local and wide-area networking; use of the Internet for communications and control; telecommunications systems; industrial personal computer-based and programmable logic controller (PLC) based control and automation systems; embedded-controller based systems; PC network-based instrumentation; communications; and data acquisition, storage, and application.

The curriculum described below provides a technical education in the area of industrial and enterprise computer networking. The core provides the student with basic instruction in analog and digital circuit analysis with hands-on laboratory work. It also introduces the fundamentals of computer systems, programming, and applications using word processors, spreadsheets, and high and low-level computer languages. The specialization area provides in-depth knowledge about networking and the requisite hardware and software. Other required courses provide mathematical and communication skills, and sufficient

knowledge of the industrial environment to perform effectively in the workplace. the B.S. also enables you to pursue advanced degrees in management, engineering, technology, or computer science.

To earn the degree, you must fulfill the requirements of IPFW (see Part 7) and of the College of Engineering, Technology, and Computer Science (see Part 3); and complete the following courses:

IPFW General Education Requirements

The courses listed below will meet the IPFW General Education Requirements required in the Bachelor of Science in computer engineering technology.

Area I—Linguistic and Numerical Foundations Credits: 9

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
ENG W131 Grade C or above required.
- MA 153 - Algebra and Trigonometry I Cr. 3.

Area II—Natural and Physical Sciences Credits: 7

- CHM 111 - General Chemistry Cr. 3.
- PHYS 218 - General Physics Cr. 4.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

- IET 105 - Industrial Management Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 6

- CPET 490 - Senior Design Project I Cr. 1.
- CPET 491 - Senior Design Project II Cr. 3.
- ENG W421 - Technical Writing Projects Cr. 1-3.
Credits:3

Core and Concentration (Major) Courses

CPET 490 and CPET 491 also counted as CPET core courses.

- CPET 213 - Web-based Analysis and Design Cr. 3.
- or
- CPET 281 - Local Area Networks and Management Cr. 3.
- CPET 355 - Data Communications and Networking Cr. 4.
- CPET 364 - Networking Security Cr. 3.
- CPET 470 - Technology Project Management Cr. 3.
- CPET 490 - Senior Design Project I Cr. 1.
- CPET 491 - Senior Design Project II Cr. 3.
- ECET 107 - Introduction to Circuit Analysis Cr. 4.
- ECET 111 - Digital Circuits Cr. 4.
- ECET 114 - Introduction to Microcomputers Cr. 3.
- ECET 146 - Digital Circuits II Cr. 3.
- ECET 157 - Electronics Circuit Analysis Cr. 4.
- ECET 205 - Introduction to Microprocessors Cr. 4.
- ECET 207 - AC Electronics Circuit Analysis Cr. 4.
- ECET 264 - C Programming Language Applications Cr. 3.
- ECET 296 - Electronic System Fabrication Cr. 2-3.

And Select Either:

- CPET 181 - Computer Operating Systems Basics Cr. 3.
- ECET 234 - PC Systems I Cr. 3.

Required CPET/ECET/CS Elective Courses Credits: 11

Selected from the following:

- ECET 483 - Industrial Local Area Networks
- CPET 384 - Wide Area Network Design Cr. 3.
- CPET 493 - Wireless Networking Cr. 3
- CPET 494 - Java Programming Applications Cr. 4.
- CPET 495 - Web Engineering and Design Cr. 4.
- ECET 302 - Introduction to Control Systems Cr. 4.
- ECET 305 - Advanced Microprocessors Cr. 4.
- ECET 307 - Analog Network Signal Processing Cr. 4.
- ECET 346 - Advanced Digital Circuits Cr. 3-4.
- ECET 361 - Introduction to PLC and Pneumatic Systems Cr. 4.
- ECET 365 - Electrical Measurements Cr. 4.
- ECET 377 - Introduction to Fiber Optics Cr. 4.
- ECET 382 - C++ Object Oriented Programming for Industrial Applications Cr. 4.
- ECET 393 - Industrial Practice III Cr. 1-5.

- ECET 394 - Industrial Practice IV Cr. 1-5.
- ECET 395 - Industrial Practice V Cr. 1-5.
- ECET 403 - Communications II Cr. 4.
- ECET 411 - Microcomputer Interfacing Cr. 4.
- ECET 414 - Wireless Communications Cr. 4.
- ECET 434 - PC Systems II Cr. 4.
- ECET 466 - Windows Programming for Industrial Applications Cr. 4.
- ECET 473 - Microwaves Cr. 4.

Required Computer Sciences Courses Credits: 8

- MA 301 - Elementary Statistical Method I Credits: 3
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.

Required Math Courses Credits: 16

- MA 301 - Elementary Statistical Method I Credits: 3
- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
- MA 228 - Calculus for Technology II Cr. 3.

Required English Technical Writing Courses Credits: 3

- ENG W234 - Technical Report Writing Cr. 3.

Total Credits: 125-128

Minor in Computer Science (B.S. CPET) Credits: 20

(Only computer science courses in which you have earned a grade of C or better can be applied to the degree or used to satisfy prerequisites)

- Approved computer science courses at the 200 level or above Credits: 6
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- MA 175 - Introductory Discrete Mathematics Cr. 3.

Minor in Mathematics Credits: 20

- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
- MA 228 - Calculus for Technology II Cr. 3.
- MA 321 - Applied Differential Equations Cr. 3.
- or
- MA 351 - Elementary Linear Algebra Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.
- or
- STAT 511 - Statistical Methods Cr. 3.

Total Credits: 133

Computer Science (B.A.)

Program: B.A. in cooperation with the School of Arts and Sciences

Department of Computer Science

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 125 ~ 260-481-6803 ~ www.cs.ipfw.edu

Offered within a liberal-arts framework, the Bachelor of Arts program in computer science helps you prepare for graduate studies or a career in computer science.

To earn the B.A. with a major in computer science, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) in addition to the requirements below. No more than 10 credits with D grades can be applied to the degree. Of the mathematics courses numbered below 261, only MA 165, 166, and 175 apply toward the degree; statistics courses must be numbered 490 or higher to be counted.

Students interested in this program should contact the Department of Mathematical Sciences.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- Quantitative reasoning requirement satisfied by the mathematics courses below Credits: 0
- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- Credits in approved two-course sequence in biology, chemistry, geosciences, or physics Credits: 8–10

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis

- MA 314 - Introduction to Mathematical Modeling Cr. 3.
(credits included in Mathematics and Statistics Requirement, below)

School of Arts and Sciences Requirements (29 credits)

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution

- Credits in Social and Behavioral Sciences Credits: 3
- Credits in Humanities Credits: 3

- MA 166 - Analytic Geometry and Calculus II Cr. 4.
satisfies the science and mathematics requirement (credits included in Mathematics and Statistics Requirement, below)

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Computer Science Core (32 credits)

- Credits in approved advanced computer science courses at the 300 or 400 level Credits: 6
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- CS 271 - Computer Architecture Cr. 3.
- CS 350 - Programming Language Design Cr. 3.
- CS 384 - Numerical Analysis Cr. 3.
- CS 486 - Analysis of Algorithms Cr. 3.
- CS 488 - Theory of Computation Cr. 3.

Mathematics and Statistics Requirement (20 credits)

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 314 - Introduction to Mathematical Modeling Cr. 3.

One of the following Credits: 3

- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 511 - Linear Algebra with Applications Cr. 3.

One of the following Credits: 3

- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Free Electives (9–11 credits)

- Credits in approved free electives sufficient to bring total to 124.

Total Credits: 124

Computer Science (B.S.)

Program: B.S.

Department of Computer Science

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 125 ~ 260-481-6803 ~ www.cs.ipfw.edu

This program helps you prepare for a career in computer science and for possible graduate study.

The B.S. program in computer science is accredited by the Computing Accreditation Commission of ABET Inc., 111 Market Place, Suite 150, Baltimore, MD 21202-402, telephone, 410-347-7700. In addition to satisfying the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3), you must complete the courses required for the A.S. with a major in computer science (see above) and the following additional courses. Only computer science courses in which you have earned a grade of C or better can be applied to the degree or used to satisfy prerequisites. A maximum of 10 credits of D grades (including any from the A.S.) will be accepted in other courses.

IPFW General Education Requirements Credits: 30

Area II—Natural and Physical Sciences Credits: 12

- Partially fulfilled by the two-semester laboratory science requirement of the associate degree. Must also have one or more of the following courses to make a total of 12 credit hours:
- GEOL G213
- BIOL 215 - Basic Human Anatomy Cr. 4.
- BIOL 250 - Women and Biology Cr. 3.
- BIOL 326 - Heredity: A Human Perspective Cr. 3.
- BIOL 350 - Plant Physiology Cr. 4.
- CHM 218 - Introduction to Inorganic Chemistry Cr. 3.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 261 - Organic Chemistry Cr. 3.
- GEOL G210 - Oceanography Cr. 3.
- GEOL G221 - Introductory Mineralogy Cr. 3-4.
- PHYS 302 - Puzzles, Games, and Problem Solving - Honors Cr. 3.
- PHYS 302 - Puzzles, Strategy Games, and Problem Solving in the Physical Sciences Cr. 3.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses
(CS 306 may not be used for this requirement)

Major Requirements Credits: 34

- CS 321 - Introduction to Computer Graphics Cr. 3.
- CS 350 - Programming Language Design Cr. 3.
- CS 360 - Software Engineering Cr. 3.
- CS 364 - Introduction to Database Systems Cr. 3.
- CS 460 - Capstone Design and Professional Practice Cr. 4.
- CS 472 - Operating Systems Design Cr. 3.
- CS 486 - Analysis of Algorithms Cr. 3.

Concentration Electives Credits: 12

- 9 credits must be selected from one concentration and 3 credits from a different concentration

Software Development Concentration

- CS 365 - Advanced Database Systems Cr. 3.
- CS 380 - Artificial Intelligence Cr. 3.
- CS 384 - Numerical Analysis Cr. 3.
- CS 474 - Compiler Construction Cr. 3.

Network and Visual Computing Concentration

- With permission of the advisor, up to 3 credits of concentration electives may be selected from among CS 492, CS 494, and CS 495.
- CS 368 - Human-Computer Interaction Cr. 3.
- CS 372 - Web Application Development Cr. 3.
- CS 374 - Computer Networks Cr. 3.
- CS 421 - Advanced Computer Graphics Cr. 3.

Supporting Courses

- Credits in approved advanced communication course Credits: 3
- Credits in additional approved electives sufficient to bring total to 124
- STAT 511 - Statistical Methods Cr. 3.

One of the following Credits: 3

- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 511 - Linear Algebra with Applications Cr. 3.

Total Credits: 124

Construction Engineering Technology (B.S.)

Program: B.S.

**Department of Civil and Architectural Engineering
Technology**

**College of Engineering, Technology, and Computer
Science**

Engineering, Technology, and Computer Science Building 229 ~ 260-481-6797 ~ www.caet.ipfw.edu

Mission

To provide employers and the public of northeast Indiana with educated, technologically equipped graduates, able to serve the varied construction industries (represented by architectural, civil, and construction engineering technologies, and interior design) in advancing the solutions to problems facing the public and private sector.

Goals

- To provide education of the traditional and returning adult student for career success in the construction industry.
- To develop a respect for diversity and a knowledge of contemporary professional, societal, and global issues with an understanding of professional and ethical responsibilities.
- To be responsive to the ever-changing technologies of the construction industries.
- To instill in students the desire for and ability to engage in lifelong learning.

The breadth of the curriculum will provide leadership potential in addressing problems of the region, its people, and its industries.

This program is open to those who have earned an associate degree in architectural engineering technology or

civil engineering technology, or the equivalent. Concentrations provide opportunities to prepare you for work in a specific segment of the construction industry. You may choose options in architectural engineering technology, civil engineering technology, or construction engineering technology. Graduates of this program take jobs with contractors, building-materials companies, utilities, architectural firms, engineering firms, and government agencies. The construction engineering technology program does not lead to licensure as a professional engineer or registered architect.

The program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, 410-347-7700. It provides you with problemsolving skills, hands-on competency, and required state-of-the-art technical knowledge. Alumni of the department are employed in all areas of the building industry, including construction; architecture; interior design; civil engineering; land surveying; and state, county, and city governments.

To earn the B.S. with a major in construction engineering technology, you must fulfill the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3), those for an associate degree in architectural engineering technology or civil engineering technology, and the additional requirements below:

IPFW General Education Requirements

Area II—Natural and Physical Sciences Credits: 4

- GEOL G100 - General Geology Cr. 3-5.
- GEOL L100 - General Geology Laboratory Cr. 1-2.

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

ETCS General Distribution Requirements Credits: 10

- ENG W234 - Technical Report Writing Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.

One of following:

- COM 315 - Speech Communication of Technical Information Cr. 3.
- COM 323 - Business and Professional Speaking Cr. 3.

Core and Concentration (Major) Courses Credits: 36

Major Courses

- XXXX xxx - Technical Selective Credits: 3
(department-approved courses)
- ARET 355 - Techniques of Land Utilization Cr. 3.
- CET 381 - Applied Structures III Cr. 4.
- CET 431 - Properties and Behavior of Soils Cr. 3.
- CNET 344 - Constructed Project Quality I Cr. 3.
- CNET 348 - Project Design Analysis Cr. 3.
- CNET 442 - Costs Estimating Cr. 3.
- CNET 443 - Engineered Construction Cr. 3.
- CNET 445 - Construction Project Management I Cr. 3.
- CNET 448 - Project Design Synthesis Cr. 3.
- CNET 457 - Construction Safety Cr. 3.

Structural Selectives Credits: 3

- CET 384 - Wood Construction
or
- CET 385 - Fundamentals of Reinforced Concrete Cr. 3.
or
- CET 482 - Steel Structure Design Cr. 3.

Subtotal Credits: 62

Credits from the A.S. CET or A.S. ARET: 68

Total Credits: 130

Economics (B.A.)

Program: B.A. School of Arts and Sciences

Neff Hall 366B ~ 260-481-6483

Economics is the study of the rational allocation of scarce resources. The major seeks to develop those critical skills that help you understand and solve problems in a wide variety of circumstances. These analytical abilities are valuable in the business world and many professional disciplines such as law and social work.

This program is offered in close cooperation with the Department of Economics in the Richard T. Doermer School of Business and Management Sciences, which offers all economics courses required for the major.

To earn the B.A. with a major in economics, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), in addition to the following requirements. Correspondence courses, whether from Indiana University or elsewhere, may not be used to satisfy any of the requirements for this major.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3-4

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- Additional credits in Area III: 3

- ECON E201 - Introduction to Microeconomics Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in ECON) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution

Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Economics Core Courses (15 credits)

- Additional Economics Courses Credits: 12

Additional credits in 300/400-level economics courses or in other courses approved by the economics faculty; at least two of these courses must be completed at IPFW.

- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.
- ECON E270 - Introduction to Statistical Theory in Economics and Business I Cr. 3.
- ECON E321 - Intermediate Microeconomic Theory Cr. 3.
- ECON E322 - Intermediate Macroeconomic Theory Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Electrical Engineering (B.S.E.E.)

Program: B.S.E.E.

Department of Engineering

**College of Engineering, Technology, and Computer
Science**

Engineering, Technology, and Computer Science Building 327 ~ 260-481-6362 ~ www.engr.ipfw.edu

To earn the B.S.E.E. at IPFW, you must satisfy the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3); follow the special academic regulations that appear at the end of this section; and satisfactorily complete the following courses:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations Credits: 10

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.

Area II—Natural and Physical Sciences Credits: 9

- CHM 115 - General Chemistry Cr. 4.
- PHYS 152 - Mechanics Cr. 5.

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses with the exception of IET 105.

- ECON E201 - Introduction to Microeconomics Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 2

- ENGR 120 - Graphical Communications and Spatial Analysis Cr. 2.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses with the exception of MA 314, PHYS 325, and STAT 340.

Freshman Engineering Credits: 6

- ENGR 101 - Introduction to Engineering Cr. 1.
- ENGR 121 - Computer Tools for Engineers Cr. 2.
- ENGR 199 - Introduction to Engineering Design Cr. 3.

Mathematics and Science Requirements Credits: 22

- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- MA 275 - Intermediate Discrete Math Cr. 3.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.

Core and Concentration (Major) Courses Credits: 48

- ECE 293 - Measurement and Instrumentation Laboratory Credits: 2
- ECE 387 - Electronics and System Engineering through Robotics Credits: 3
- ECE 388 - Electronics and System Engineering through Robotics Lab Credits: 1
- ENGR 222 - Object Oriented Programming Credits: 1
- ECE 201 - Linear Circuit Analysis I Cr. 3.
- ECE 202 - Linear Circuit Analysis II Cr. 3.
- ECE 208 - Election Devices and Design Laboratory Cr. 1.
- ECE 255 - Introduction to Electronic Analysis and Design Cr. 3.
- ECE 270 - Introduction to Digital System Design Cr. 4.
- ECE 301 - Signals and Systems Cr. 3.
- ECE 302 - Probabilistic Methods in Electrical Engineering Cr. 3.
- ECE 311 - Electric and Magnetic Fields Cr. 3.
- ECE 362 - Microprocessor Systems and Interfacing Cr. 4.
- ECE 382 - Feedback System Analysis and Design Cr. 3.

- ECE 405 - Senior Engineering Design I Cr. 3.
- ECE 406 - Senior Engineering Design II Cr. 3.
- ECE 436 - Digital Signal Processing Cr. 3.
- ENGR 221 - C and C++ Programming for Engineers Cr. 2.

Required Mechanical Engineering Courses Credits: 3

- ME 200 - Thermodynamics I Cr. 3.
- or
- ME 250 - Statics Cr. 3.

Technical Elective Courses Credits: 12

Electrical Engineering Electives

- ECE 495Y - RF Circuits Credits: 3
- ECE 495X - Wireless and Mobile Communication Systems Credits: 3
- ECE 373 - Numerical Methods for Engineers Cr. 3.
- ECE 442 - Transmission of Information Cr. 3.
- ECE 443 - Communications Laboratory Cr. 1.
- ECE 460 - Power Electronics Cr. 3.
- ECE 465 - Embedded Microprocessors Cr. 3.
- ECE 483 - Digital Control Systems - Analysis and Design Cr. 3.

Engineering Electives

- ECE 351 - Software Engineering Credits: 3
- ECE 358 - Introduction to VHDL Programing Cr. 3.
- ECE 368 - Data Structures Cr. 3.
- ECE 418 - Introduction to Computer Graphics Cr. 3.
- or CS 321- Introduction to Computer Graphics Cr. 3
- ECE 437 - Computer Design and Prototyping Cr. 4.
- ECE 495 - Selected Topics in Electrical Engineering Cr. 1-4.
- ECE 495 - Embedded Operating Systems Credits: 4
- ECE 495Z - Cryptography and Network Security Credits: 3
- ECE 547 - Introduction to Computer Communication Networks Cr. 3.
- ME 301 - Thermodynamics II Cr. 3.

Math and Science Technical Electives

- MA 417 - Mathematical Programming Cr. 3.
- MA 418 - Computations Laboratory for MA 417 Cr. 1.
- PHYS 322 - Optics Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.

- PHYS 345 - Optics Laboratory I Cr. 1.
- PHYS 550 - Introduction to Quantum Mechanics Cr. 3.

Total Credits: 127

Electrical Engineering Technology (B.S.)

Program: B.S.

Department of Electrical and Computer Engineering Technology

College of Engineering, Technology, and Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~ www.ecet.ipfw.edu

The B.S. helps you prepare for a career in an advanced technical position in communications, electronics, control systems, manufacturing, electrical power, microprocessors, or embedded software programming in Visual Basic, C/Embedded C, C++, assembly language, and/or Java. The B.S. also enables you to pursue advanced degrees in management, engineering, technology, or computer science.

To earn the degree, you must complete the A.S. with a major in electrical engineering technology (see above); fulfill the requirements of IPFW (see Part 7) and of the College of Engineering, Technology, and Computer Science (see Part 3); and complete the following courses:

IPFW General Education Requirements

The courses listed below will meet the IPFW General Education Requirements required in the Bachelor of Science in electrical engineering technology.

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
ENG W131 Grade C or above required.
- MA 153 - Algebra and Trigonometry I Cr. 3.

Area II—Natural and Physical Sciences

- CHM 111 - General Chemistry Cr. 3.
- PHYS 218 - General Physics Cr. 4.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses Credits: 3

- IET 105 - Industrial Management Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 6

- ECET 490 - Senior Design Project, Phase I Cr. 1-2.
- ECET 491 - Senior Design Project, Phase II Cr. 2-5.
- ENG W421 - Technical Writing Projects Cr. 1-3.

Core and Concentration (Major) Courses

ECET 490 and ECET 491 also counted as ECET core courses.

- ECET 302 - Introduction to Control Systems Cr. 4.
or
- ECET 303 - Communications I Cr. 4.
- ECET 307 - Analog Network Signal Processing Cr. 4.
- ECET 357 - Real-Time Digital Signal Processing Cr. 4.
- ECET 470 - Technology Project Management Cr. 3.
- ECET 490 - Senior Design Project, Phase I Cr. 1-2.
- ECET 491 - Senior Design Project, Phase II Cr. 2-5.

Required ECET/CPET elective courses selected from the following:

- ECET 483 - Industrial Local Area Networks
- CPET 281 - Local Area Networks and Management Cr. 3.
- CPET 364 - Networking Security Cr. 3.
- CPET 384 - Wide Area Network Design Cr. 3.
- CPET 493 - Wireless Networking Cr. 3
- CPET 494 - Java Programming Applications Cr. 4.
- CPET 495 - Web Engineering and Design Cr. 4.
- ECET 305 - Advanced Microprocessors Cr. 4.
- ECET 312 - Power Electronics Cr. 4.
- ECET 331 - Generation and Transmission of Electrical Power Cr. 4.

- ECET 346 - Advanced Digital Circuits Cr. 3-4.
- ECET 348 - Project Design Analysis Cr. 3.
- ECET 361 - Introduction to PLC and Pneumatic Systems Cr. 4.
- ECET 365 - Electrical Measurements Cr. 4.
- ECET 372 - Process Control Cr. 4.
- ECET 382 - C++ Object Oriented Programming for Industrial Applications Cr. 4.
- ECET 393 - Industrial Practice III Cr. 1-5.
- ECET 394 - Industrial Practice IV Cr. 1-5.
- ECET 395 - Industrial Practice V Cr. 1-5.
- ECET 403 - Communications II Cr. 4.
- ECET 411 - Microcomputer Interfacing Cr. 4.
- ECET 414 - Wireless Communications Cr. 4.
- ECET 434 - PC Systems II Cr. 4.
- ECET 453 - Topics in Telecommunications Cr. 4.
- ECET 466 - Windows Programming for Industrial Applications Cr. 4.
- ECET 473 - Microwaves Cr. 4.
- ECET 492 - Digital Systems Cr. 4.

Select Either:

- CPET 355 - Data Communications and Networking Cr. 4.
- ECET 355 - Data Communications and Networking Cr. 4.

Select Either:

- CPET 375 - Microprocessor-Based Digital Systems Cr. 3-4.
- ECET 375 - Computer Controlled System Designs Cr. 3-4.

Select Either:

- CPET 435 - Electronic Industrial Controls
- ECET 435 - Electronic Industrial Controls Cr. 3.

Select Either:

- CPET 472 - Automatic Control Systems Cr. 4.
- ECET 472 - Automatic Control Systems Cr. 4.

Select Either:

- CPET 486 - Robotics and Control Electronics with Microcomputers Cr. 4.
- ECET 486 - Robotics and Control Electronics with Microcomputers Cr. 4.

Non-ECET technical elective courses Credits:6

- CS, MET, or IET courses preferred (*3 credits may be from co-op or military service*)

Required math courses Credits: 13

- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
- MA 228 - Calculus for Technology II Cr. 3.
- MA 321 - Applied Differential Equations Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Required English Technical Writing Course

- ENG W234 - Technical Report Writing Cr. 3.

Total Credits: 127-128

Minor in Computer Science (B.S. EET) Credits: 20

(Only computer science courses in which you have earned a grade C or better can be applied to the degree or used to satisfy prerequisites)

- Approved computer science credits at the 200 level or above: 6
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- MA 175 - Introductory Discrete Mathematics Cr. 3.

Minor in Mathematics Credits: 20

- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
- MA 228 - Calculus for Technology II Cr. 3.

One of the following Credits: 3

- MA 321 - Applied Differential Equations Cr. 3.
- MA 351 - Elementary Linear Algebra Cr. 3.

One of the following Credits: 3

- STAT 301 - Elementary Statistical Methods I Cr. 3.
- STAT 511 - Statistical Methods Cr. 3.

Total Credits: 132

Elementary Education (B.S.Ed.)

Program: B.S.Ed.

Department of Educational Studies

School of Education

Neff Hall 250 ~ 260-481-6441

The B.S.Ed. in elementary education is intended to prepare students for successful careers as teachers of children in preschool, elementary-primary, and elementary-intermediate classroom settings. The elementary education degree is divided into two concentrations: early childhood, for preschool and elementary-primary school settings, and middle childhood, for elementary-intermediate school settings. Preservice teachers must choose one or both concentrations to complete the degree. Upon satisfactory completion of the program, you are eligible to apply for an Indiana teaching license.

To earn the B.S.Ed. in elementary education, you must satisfy the requirements of IPFW (see part 7) and the School of Education.

Early Childhood Concentration

School Settings: Preschool and Elementary-Primary

General Education Credits: 63

School of Education Credits: 52

Elective Credits: 9

Total Credits: 124

IPFW General Education Requirements Credits: 63

Area I—Linguistic and Numerical Foundations Credits: 18

- COM 114 - Fundamentals of Speech Communication Cr. 3.
(a grade of B or better is required)
- ENG W131 - Elementary Composition I Cr. 3.
(a grade of B or better is required)
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 101 - Mathematics for Elementary Teachers I Cr. 3.
- MA 102 - Mathematics for Elementary Teachers II Cr. 3.
- MA 103 - Mathematics for Elementary Teachers III Cr. 3.

Area II—Natural and Physical Sciences Credits: 12

See Part 2 General Education Requirements for approved courses

- Biology Credits: 3
- Chemistry or Physics Credits: 3
- Geology or Astronomy Credits: 3
- EDUC Q200 - Introduction to Scientific Inquiry Cr. 1-3.
Credits: 3

Area III—The Individual, Culture, and Society Credits: 12

See Part 2 General Education Requirements for approved courses

- American History Credits: 3
- Economics or Political Science Credits: 3
- Sociology or Psychology 120 Credits: 3

One of the following Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.
or
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.
- HIST H232 - The World in the 20th Century Cr. 3.

Area IV—Humanistic Thought Credits: 9

See Part 2 General Education Requirements for approved courses

- Philosophy Credits: 3
- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
or
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.
- ENG L390 - Children's Literature Cr. 3.

Area V—Creative and Artistic Expression Credits: 9

- EDUC M323 - The Teaching of Music in the Elementary Schools Cr. 2.
- EDUC M333 - Art Experiences for the Elementary Teacher Cr. 2.
- FINA T255 - Crafts and Design Cr. 3.
- MUS Z241 - Introduction to Music Fundamentals Cr. 2.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Education Requirements

Initial Requirements:

- PPST (Pre-Professional Skills Test)
- AUS 115 - Introduction to Communicative Disorders Cr. 3.
- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 1/0
- EDUC W200 - Using Computers for Education Cr. 1.
(a grade of B or better is required)

Block 1: Teacher Education

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P249 - Growth and Development in Early Childhood Cr. 3.

Block 2: Professional Education

- T.E.A.M. I
- EDUC E339 - Methods of Teaching Language Arts Cr. 2-3.
Credits: 3
- EDUC E340 - Methods of Teaching Reading I Cr. 2-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3
- EDUC P251 - Educational Psychology for Elementary Teachers Cr. 1-4.
Credits: 3

Block 3: Professional Education

- EDUC E325 - Social Studies in the Elementary Schools Cr. 3.
- EDUC E333 - Inquiry in Mathematics and Science Cr. 3.
- EDUC E336 - Play as Development Cr. 3.
- EDUC E337 - Classroom Learning Environments Cr. 3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 0

Student Teaching

- EDUC M501 - Portfolio Credits: 0
- EDUC M425 - Student Teaching: Elementary Cr. 1-16.
Credits: 12
- EDUC M470 - Practicum Cr. 3-8.
Credits: 4 (optional)
(for an additional endorsement area)

Electives Credits: 9

Total Credits: 124

Middle Childhood Concentration

School Settings: Elementary-Intermediate

General Education Credits: 63

School of Education Credits: 52

Elective Credits: 9

Total Credits: 124

IPFW General Education Requirements Credits: 63

Area I—Linguistic and Numerical Foundations Credits: 18

- COM 114 - Fundamentals of Speech Communication Cr. 3.
(grade of B or better required)
- ENG W131 - Elementary Composition I Cr. 3.
(grade of B or better required)
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 101 - Mathematics for Elementary Teachers I Cr. 3.
- MA 102 - Mathematics for Elementary Teachers II Cr. 3.
- MA 103 - Mathematics for Elementary Teachers III Cr. 3.

Area II—Natural and Physical Sciences Credits: 12

See Part 2 General Education Requirements for approved courses

- Biology Credits: 3
- Chemistry or Physics Credits: 3
- Geology or Astronomy Credits: 3
- EDUC Q200 - Introduction to Scientific Inquiry Cr. 1-3.

Area III—The Individual, Culture, and Society Credits: 12

See Part 2 General Education Requirements for approved courses

- American History Credits: 3
- Economics or Political Science Credits: 3
- Sociology or Psychology 120 Credits: 3

One of the following: Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- or
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.
- HIST H232 - The World in the 20th Century Cr. 3.

Area IV—Humanistic Thought Credits: 9

See Part 2 General Education Requirements for approved courses

- Philosophy Credits: 3
- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- or
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.
- ENG L390 - Children's Literature Cr. 3.

Area V—Creative and Artistic Expression Credits: 9

- EDUC M323 - The Teaching of Music in the Elementary Schools Cr. 2.
- EDUC M333 - Art Experiences for the Elementary Teacher Cr. 2.
- FINA T255 - Crafts and Design Cr. 3.
- MUS Z241 - Introduction to Music Fundamentals Cr. 2.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Education Requirements

Initial Requirements:

- PPST (Pre-Professional Skills Test)
- AUS 115 - Introduction to Communicative Disorders Cr. 3.
- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC W200 - Using Computers for Education Cr. 1.
(a grade of B or better is required)

Block 1: Teacher Education

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3

- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P249 - Growth and Development in Early Childhood Cr. 3.

Block 2: Professional Education

- T.E.A.M. I
- EDUC E339 - Methods of Teaching Language Arts Cr. 2-3.
Credits: 3
- EDUC E340 - Methods of Teaching Reading I Cr. 2-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3
- EDUC P251 - Educational Psychology for Elementary Teachers Cr. 1-4.
Credits: 3

Block 3: Professional Education

- T.E.A.M. II
- EDUC E325 - Social Studies in the Elementary Schools Cr. 3.
Credits: 3
- EDUC E328 - Science in the Elementary Schools Cr. 3.
Credits: 3
- EDUC E341 - Methods of Teaching Reading II Cr. 2-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC N343 - Mathematics in the Elementary School Cr. 3.
Credits: 3

Student Teaching

- EDUC M501 - Portfolio Credits: 0
- EDUC M425 - Student Teaching: Elementary Cr. 1-16.
Credits: 12
- EDUC M470 - Practicum Cr. 3-8.
Credits: 4 (optional)
(for an additional endorsement area)

Electives Credits: 9

Total Credits: 124

English (B.A.)

Program: B.A.

Department of English and Linguistics

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

To earn the B.A. with a major in English, you must fulfill the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and those listed below.

As you complete your degree, you will be required to submit clean copies of two papers to the department. The first paper must be from a course taken during the first 15 credits you count toward the major, and the second from a course taken thereafter and counted toward the major. Both papers should be from courses taught in the department, be appropriate to your concentration, and represent your best work. At least one should be based on research and include documentation. Please turn the paper in before the end of the appropriate semester and include a copy of the assignment, if it is available.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression

See Part 2 General Education Requirements for approved courses

- Credits not in your major discipline: 3

Area VI—Inquiry and Analysis

See Part 2 General Education Requirements for approved courses

- Credits not in your major discipline: 3

School of Arts and Sciences Requirements

English Writing

- ENG L202 - Literary Interpretation Cr. 3.

Foreign Language credits: 14

- Requirements in Arts and Sciences Part B

Distribution (not in major discipline) Credits: 9

- Requirements in Arts and Sciences Part C

Cultural Studies Credits: 6

- Requirements in Arts and Sciences Part D

Core and Concentration (Major) Courses

- Credits in Writing (ENG W203 or a W-prefixed course above the 200-level): 3
- Credits in American literature: 3
- Credits in British literature before 1700: 3
- Credits in British literature after 1700: 3

- Credits in language study (linguistics, history of the English language, or Old or Middle English literature): 3
- Credits in one of the concentrations as listed: 15–53
- ENG L202 - Literary Interpretation Cr. 3.

General Elective Courses Credits: 0–32

- Sufficient elective credits, selected in consultation with your advisor

Total Credits: 124

Fine Arts (B.A.)

Program: B.A.

Department of Visual Arts/Fine Arts Program School of Visual and Performing Arts

Visual Arts Building 117 ~ 260-481-6705 ~ www.ipfw.edu/vpa/

This program is based on the humanist tradition of developing an artistic awareness through visual expression. It is designed to enable students to see, formulate, and articulate concepts through the manipulation of form and materials. This art-making practice is through several studio art disciplines offered at IPFW. They are ceramics, metals, drawing, painting, printmaking, or sculpture. The IPFW B.A. program is a broad-based liberal arts degree with wideranging interest in and outside of the fine arts. Students can choose to concentrate in a specific art discipline, or may explore a wide range of artistic disciplines.

Components	Credits
I. General Education	33
II. Content Field	57-69
III. General Liberal Arts	21-33
Total	123

Admission to B.A. Program with a Major in Fine Arts

To earn the B.A., you must fulfill the requirements of IPFW (see Part 7) and the School of Visual and Performing Arts (see Part 3). Students within the fine arts B.A. must maintain a minimum 2.0 GPA within the Content Field (see below).

IPFW General Education Requirements Credits: 33

Area I Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

- Quantitative Reasoning Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

- (Fine arts majors may not use any FINA-prefixed courses to fulfill this requirement)

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

- (Fine arts majors may not use any FINA-prefixed courses to fulfill this requirement)

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Visual and Performing Arts Requirements

II. Content Field:

Students must complete a minimum of 48 credit hours in studio art and at least 9 credit hours in FINA art history classes including the following:

- 200/300/400 Studio Electives Credits: 24–36
- VCD P273 - Computer Art and Design I Cr. 3.

Credits in FINA studio courses: 12

- FINA P121 - Drawing Fundamentals I-II Cr. 3.
- FINA P122 - Drawing Fundamentals I-II Cr. 3.
- FINA P151 - Design Fundamentals I-II Cr. 3.
- FINA P152 - Design Fundamentals I-II Cr. 3.

Choose three classes from the following: 9

At least one course from either 2D and 3D disciplines must be taken.

- FINA P223 - Figure Drawing I Cr. 3.
- FINA P225 - Painting Fundamentals I Cr. 3.
- FINA P231 - Sculpture Fundamentals Cr. 3.
- FINA P233 - Metalsmithing Fundamentals Cr. 3.
- FINA P235 - Ceramics Fundamentals Cr. 3.
- FINA P241 - Printmaking Fundamentals Cr. 3.

Note

Select at least eight additional, but no more than twelve, studio art classes (24–36 credits) at the 200/300/400 level. At least three classes (15 credits) in studio courses must be at the 300 level or above. Of these, up to four classes can be in VCD unless permission from your advisor is given to include more. All classes should be selected in consultation with your advisor and approved by the chair of fine arts.

Art History Credits: 9

- Art History Elective, 300 or 400 Level (FINA classes)

The following classes must be taken within the first four semesters of the B.A. program

- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.

Additional Courses Credits: 21-33

III. General Liberal Arts

A minimum of seven additional, but no more than eleven, liberal arts courses (21–33 credits) are needed to fulfill the B.A. requirements. An option of pursuing a minor in an outside field is encouraged within these credits.

Residence Requirements: For a bachelor’s degree, registration in and completion of at least 32 credits of resident course credit at the 200 level or above, including at least 15 credits at the 300 level or above, in courses applicable to the major

Transferred Credit: All studio art and art history courses transferred from another institution or campus must be evaluated by an appropriate faculty member in the Fine Arts Program before they may be applied to a major in fine arts. See Transfer Credit.

Limit on Fine Arts Credit Hours: A maximum of 60 credit hours of studio art fine art courses and a minimum of 48 credit hours of studio art fine art courses will count toward the 123 required for the B.A.

Total Credits: 123

Fine Arts (B.F.A.)

Program: B.F.A.
Department of Visual Arts/Fine Arts Program
School of Visual and Performing Arts

Visual Arts Building 117 ~ 260-481-6705 ~ www.ipfw.edu/vpa/

The Bachelor of Fine Arts program is designed for exceptional students who are interested in pursuing a professional career in the field of fine arts. They must have demonstrated superior ability and motivation in a particular studio art discipline. Students within the B.F.A. program can concentrate in ceramics, metals, drawing, painting, printmaking, or sculpture. This intensive studio experience will amount to an extra year beyond the B.A. program for most B.F.A. majors. All students in the fine arts program start as B.F.A. candidates and then petition for formal entrance into the B.F.A. program after the completion of 200-level requirements. Each student is subject to a portfolio review, judgment of grades, and a personal interview with faculty for admission into the B.F.A. program. Students may not enroll in any FINA courses 300 or higher unless above requirements are met. All B.F.A. students must maintain a 3.0 GPA within the content field (see below)

Admission

Students must meet the requirements of IPFW (see Part 7)

Components:	Credits
I. General Education	33
II. Content Field	90
Total	123

IPFW General Education Requirements Credits: 33

Area I—Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

- Quantitative Reasoning Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

- (Fine arts majors may not use any FINA-prefixed courses to fulfill this requirement.)

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

- (Fine arts majors may not use any FINA-prefixed courses to fulfill this requirement.)

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Visual and Performing Arts Requirements

II. Content Field Credits: 90

Students must complete a minimum of 75 credit hours in studio and 15 credit hours in FINA art history classes for the B.F.A.

100 Level Foundation Courses Credits: 12

- FINA P121 - Drawing Fundamentals I-II Cr. 3.
- FINA P122 - Drawing Fundamentals I-II Cr. 3.
- FINA P151 - Design Fundamentals I-II Cr. 3.

- FINA P152 - Design Fundamentals I-II Cr. 3.

Art History Credits: 15

- Three additional FINA 300 level or above art history classes Credits: 9

The following courses must be taken within the first four semesters of the program

- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.

200-level classes Credits: 21

- FINA P223 - Figure Drawing I Cr. 3.
- FINA P225 - Painting Fundamentals I Cr. 3.
- FINA P231 - Sculpture Fundamentals Cr. 3.
- FINA P233 - Metalsmithing Fundamentals Cr. 3.
- FINA P235 - Ceramics Fundamentals Cr. 3.
- FINA P241 - Printmaking Fundamentals Cr. 3.
- VCD P273 - Computer Art and Design I Cr. 3.

300/400-level studio concentration Credits: 21

- 400-level classes can be repeated to fulfill requirement

200/300/400 Electives Credits: 15

- Classes can be in either FINA or VCD

Senior Project Credits: 6

Total Credits: 123

French (B.A.)

Program: B.A.

Department of International Language and Culture Studies

School of Arts and Sciences

French is the language of many fascinating countries and cultures in Africa, parts of Asia, Europe, and North America. French-speaking countries influence many fields of study, such as the arts, philosophy, politics and world economy, science, and technology. With a major in French and a degree, in particular a B.A., you may continue your education in languages or expand into other fields at a graduate school, or you may pursue a career in business or teaching.

To earn the B.A. with a major in French, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and satisfactorily complete the requirements of the major, given below.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of following Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- LING L103 - Introduction to the Study of Language Cr. 3.

One of following Credits: 3

- HIST H232 - The World in the 20th Century Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Area IV—Humanistic Thought

- Additional credits in Area IV: 3

One of following Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in FREN) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing Credits: 0

- FREN W300 - Methods of Research and Criticism Cr. 3.

Foreign Language

One of following Credits: 4-8

- FREN F111 - Elementary French I Cr. 4.
- FREN F112 - Elementary French II Cr. 4.
- FREN F113 - First-Year French in One Semester Cr. 4.
- FREN F203 - Second-Year French I Cr. 3.
- FREN F204 - Second-Year French II Cr. 3.

Distribution (not in FREN)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- Credits in 300-level French literature courses Credits: 6
- Credits in 300-level French language courses, excluding F325 Oral French for Teachers Credits: *6–9
- Credits in 400-level French and francophone civilization courses (F463 or F464) Credits: 3
- Additional credits in 400-level French courses Credits: *9–12

**The combined total of 300-level French language courses and 400-level French courses must be at least 18 credits.*

- FREN F213 - Second-Year French Composition Cr. 2.
(normally taken concurrently with F203–F204)
- FREN W300 - Methods of Research and Criticism Cr. 3.
(taught in fall semester; should be taken concurrently with the first 300-level French or Francophone literature course)

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

French with Teacher Certification (B.A.)

Program: B.A. with Teacher Certification **Department of International Language and Culture** **Studies** **School of Arts and Sciences**

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs

Students pursuing a French major for the B.A. with teacher certification must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) and satisfactorily complete the requirements of the major, given below.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUC K201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of following Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- LING L103 - Introduction to the Study of Language Cr. 3.

One of following Credits: 3

- HIST H232 - The World in the 20th Century Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Area IV—Humanistic Thought

- Additional credits in Area IV: 3

One of following Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in FREN) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements (25–29 credits)

English Writing Credits: 0

- FREN W300 - Methods of Research and Criticism Cr. 3.

Foreign Language (10–14 credits)

- FREN F203 - Second-Year French I Cr. 3.
- FREN F204 - Second-Year French II Cr. 3.

One of the following: Credits: 4-8

- FREN F111 - Elementary French I Cr. 4.
- FREN F112 - Elementary French II Cr. 4.
- FREN F113 - First-Year French in One Semester Cr. 4.

Distribution (not in FREN)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- Credits in 300-level French language courses Credits: 6
- Credits in 300-level French literature courses Credits: 6
- Credits in 400-level French and francophone civilization courses (F463 or F464) Credits: 3
- Additional credits in 400-level French courses Credits: 9
- FREN F213 - Second-Year French Composition Cr. 2.
(normally taken concurrently with F203–F204)
- FREN F325 - Oral French for Teachers Cr. 3-8.
- FREN W300 - Methods of Research and Criticism Cr. 3.
(taught in fall semester; should be taken concurrently with the first 300-level French or francophone literature course)

Professional Education

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC M445 - Methods of Teaching Foreign Languages Cr. 3.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.

And Select:

Credits: 3

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC P250 - General Educational Psychology Cr. 1-4.

And Select:

Credits: 3

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

Middle School Certification (Recommended)

- EDUC M470 - Practicum Cr. 3-8.

General Elective Courses

- Sufficient additional credits, if necessary, to bring the total to 124.

Total Credits: 124-130

General Studies (B.G.S.)

Program: B.G.S.

Division of Continuing Studies

Kettler Hall 145 ~ 260-481-6828 ~ www.edu/dcs/gsdg/

General Studies offers a wide variety of personalized degree options to the traditional and nontraditional student. Students may individually tailor their program to combine a substantial core of courses basic to a traditional university education and study in career-related areas. Within the flexible framework of degree requirements, students may design an undergraduate program that can more readily meet their career and personal-development goals than can a traditional major. Students will be encouraged and assisted in developing a unique academic program complementing their individual interests, abilities, and intellectual and practical concerns.

In addition to taking advantage of the wide variety of daytime, evening, and weekend classes at IPFW, students may choose to earn credit toward their degree through correspondence study. Students may also earn credit by examination, and in some cases earn credit for significant, documentable self-acquired competencies when the learning outcomes have been comparable to those of university-level work. Consideration is given to all previously earned college credit from other accredited institutions. The Associate of Arts in General Studies and Bachelor of General Studies programs may also be tailored to the needs of those unable to study on campus during regularly scheduled periods. Both degrees may be completed online.

Both programs include courses in broad categories called required areas of learning (listed below) and elective credit that students may earn in any IPFW program. The required areas of learning provide broad exposure to the humanities, social sciences, and sciences, while the electives permit students to explore areas of interest, receive credit for prior university-level experiential learning, and tailor the degree to their individual needs. In each plan of study, students must demonstrate competency in each of the following areas: written communication (two courses), oral communication, mathematics, computer literacy, a diversity course, and a capstone course.

After students are admitted to a general studies degree program, students will develop a plan of study to meet their objectives. An advisor will provide assistance in this effort. For further information, refer to the current Indiana University School of Continuing Studies *General Studies Degree Bulletin*.

To earn a B.G.S., students must complete the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Required Areas of Learning

General studies is a university-wide degree program, certified through Indiana University’s School of Continuing Studies. The program follows the same curriculum requirements throughout Indiana University.

Arts and Humanities Credits: 0-6

(depending upon course selection for general education)

Afro-American Studies	Foreign Language
Classical Studies	History
Communication	Journalism
Comparative Literature	Music
English (except R150 and W130)	Philosophy
Film	Religion
Fine Arts	Theatre
Folklore	Visual Communication and Design

Science and Mathematics Credits: 3-9

(depending upon course selection for general education)

- ANTH B200 and E445 (only)
- Astronomy
- Biology
- Chemistry
- *Computer Science (includes BUS K211, K212, K213, K214, K215, and K216)
- ECON E270 (only)
- Entomology
- Forestry and Natural Resources
- GEOG G107, G109, G315 (only)
- Geology
- Horticulture
- Mathematics (except 109, 111, and 113)
- Physics
- PSY 120, 201, 310, 314, 329, and 416 (only)
- SOC S351 (only)
- SPEA K300 (only)
- Statistics

*required course

Social and Behavior Sciences Credits: 6-12

(depending upon course selection for general education)

- Anthropology
- Psychology
- Economics
- Sociology
- Geography
- SPEA J101 (only)
- Linguistics
- WOST W210 (only)
- Political Science

Required Core and Concentration (Major) Credits: 54

- 12 credits in each required area of learning, including courses from at least two departments in each area
Credits: 36
- 18 credits in one of the three required areas of learning Credits: 18

General Elective Courses Credits: 66

In consultation with an advisor, you are urged to concentrate electives in related departments (15 credits in arts and sciences are required).

Note

Students must complete at least 20 of these credits after admission to the program. No more than 21 credits in a single arts and sciences department/subject area or 30 credits in a single professional school area may be counted. Courses in which a grade of D is earned will count only as electives. A minimum of 30 credits must be taken at the 300–400 level. At least 30 credits must be taken within the IU system or as a Purdue student at IPFW.

Total Credits: 120

Geology (B.A.)

Program: B.A. Department of Geosciences School of Arts and Sciences

Science Building 230 ~ 260-481-6249 ~ www.geosci.ipfw.edu

To earn the B.A. with a major in geology, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and complete required geoscience courses with grades of C or better.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.

One of following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- CHM 115 - General Chemistry Cr. 4.

One of the following: Credits: 0

(credits included in Major Courses, below)

- GEOL G100 - General Geology Cr. 3-5.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL L100 - General Geology Laboratory Cr. 1-2.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in GEOL) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Requirements in Arts and Science Part B Credits: 14

Distribution

One of following Credits: 4-6

- Credits in social and behavioral sciences Credits: 3
- Credits in humanities Credits: 3
- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- PHYS 131 - Concepts in Physics I Cr. 3.
- PHYS 132 - Concepts in Physics II Cr. 3.

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- GEOG G237 - Cartography and Geographic Information Credits: 3
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G211 - Introduction to Paleobiology Cr. 3.
- GEOL G221 - Introductory Mineralogy Cr. 3-4.
Credits: 3
- GEOL G222 - Introduction to Petrology Cr. 3.
- GEOL G323 - Structural Geology Cr. 3.
- GEOL G334 - Principles of Sedimentology and Stratigraphy Cr. 3.

One of following Credits: 3-4

- GEOL G100 - General Geology Cr. 3-5.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL L100 - General Geology Laboratory Cr. 1-2.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Geology (B.S.G.)

Program: B.S.G.

Department of Geosciences

School of Arts and Sciences

Science Building 230 ~ 260-481-6249 ~ www.geosci.ipfw.edu

To earn the B.S.G., you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) and complete required courses in geoscience and ancillary subject areas with grades of C or better.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
- MA 228 - Calculus for Technology II Cr. 3.

One of following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

Credits included in Core Courses, below

- CHM 115 - General Chemistry Cr. 4.

One of following Credits: 0

- AST A100 - The Solar System Cr. 3.
- GEOG G107 - Physical Systems of the Environment Cr. 3.
- GEOL G100 - General Geology Cr. 3-5.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL G210 - Oceanography Cr. 3.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in GEOL) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Credits in the first year of a modern foreign language Credits: 8

Core and Concentration (Major) Courses

- Credits in a STAT or CS course approved by your advisor Credits: 3
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G211 - Introduction to Paleobiology Cr. 3.
- GEOL G221 - Introductory Mineralogy Cr. 3-4.
Credits: 3
- GEOL G222 - Introduction to Petrology Cr. 3.
- GEOL G319 - Elementary Field Geology Cr. 2.
- GEOL G323 - Structural Geology Cr. 3.
- GEOL G334 - Principles of Sedimentology and Stratigraphy Cr. 3.
- PHYS 218 - General Physics Cr. 4.
and
- PHYS 219 - General Physics II Cr. 4.
or
- PHYS 220 - General Physics Cr. 4.
and
- PHYS 221 - General Physics Cr. 4.

One of following Credits: 3-4

- AST A100 - The Solar System Cr. 3.
with GEOL L100 (4 credits)
- GEOG G107 - Physical Systems of the Environment Cr. 3.
with GEOL L100 (4 credits)
- GEOL G100 - General Geology Cr. 3-5.
with L100 (4 credits)
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL G210 - Oceanography Cr. 3.
with L100 (4 credits)

Option Requirements

- Credits in the Environmental Geology Option or Geology Option Credits: 15–18
(see below)

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Environmental Geology Option

This option will help you prepare for advanced study in environmental geology or for work as a professional geologist in the areas of water supply, waste management, geological hazards, and engineering geology.

12 credits from the following:

- Additional credits in 300- or 400-level geology courses Credits: 3
- GEOG G315 - Environmental Conservation Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.
- GEOL G406 - Introduction to Geochemistry Cr. 3.
- GEOL G415 - Geomorphology Cr. 3-4.
- GEOL G451 - Principles of Hydrogeology Cr. 3.

Total Credits: 15

Geology Option

This is the traditional option in geology. It will help you prepare for advanced study in geology or work as a professional geologist.

Option Requirements

- Field camp experience (e.g., GEOL G429) Credits: 6–7
- Credits in 400-level geology courses Credits: 8
- Additional credits in 300- or 400-level geology courses Credits: 3

Total Credits: 17-18

German (B.A.)

Program: B.A.

Department of International Language and Culture

Studies

School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

To earn the B.A. with a major in German, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and satisfactorily complete the requirements of the major, given below:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- LING L103 - Introduction to the Study of Language Cr. 3.

One of following Credits: 3

- HIST H232 - The World in the 20th Century Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Area IV—Humanistic Thought

- Additional credits in Area IV Credits: 3

One of the following Credits: 3

- FWAS 201 - Humanities I: The Ancient World Cr. 3.
- FWAS 202 - Humanities II: Foundations of the Modern Western World Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in GER) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- GER W300 - Methods of Research and Criticism Cr. 3.

Foreign Language

- GER G203 - Second-Year German I Cr. 3.
- GER G204 - Second-Year German II Cr. 3.

One of following Credits: 4-8

- GER G111 - Elementary German I Cr. 4.
- GER G112 - Elementary German II Cr. 4.
- GER G113 - First-Year German in One Semester Cr. 4.

Distribution (not in GER)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- Credits in German culture, normally G362, G363, G463, or G464 Credits: 3
- Credits in 300-level German literature courses Credits: 3
- Additional credits in German at the 300 level Credits: 3
- Credits in 400-level German courses (language, literature, and/or culture) Credits: 9
- GER G318 - German Language Skills I Cr. 3-5.
Credits: 3
- GER W300 - Methods of Research and Criticism Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

German with Teacher Certification (B.A.)

Program: B.A. with Teacher Certification **Department of International Language and Culture** **Studies** **School of Arts and Sciences**

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

Students pursuing a B.A. in German with teacher certification must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) and satisfactorily complete the following requirements.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUC K201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student teaching semester, normally in your senior year.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundation

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.

- ENG W140 - Elementary Composition, Honors Cr. 3.

One of following Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- LING L103 - Introduction to the Study of Language Cr. 3.

One of following Credits: 3

- HIST H232 - The World in the 20th Century Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Area IV—Humanistic Thought

- Additional credits in Area IV Credits: 3

One of following Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in GER) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- GER W300 - Methods of Research and Criticism Cr. 3.
(credits included in Major Courses, below)

Foreign Language

- GER G203 - Second-Year German I Cr. 3.
- GER G204 - Second-Year German II Cr. 3.

One of following Credits: 4-8

- GER G111 - Elementary German I Cr. 4.
- GER G112 - Elementary German II Cr. 4.
- GER G113 - First-Year German in One Semester Cr. 4.

Distribution (not in GER)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- Credits in German culture, normally G362, G363, G463, or G464 Credits: 3
- Credits in 300-level German literature courses Credits: 3
- Additional German credits at the 300 level Credits: 3
- Credits in 400-level German courses (language, literature, and/or culture) Credits: 12
- GER G318 - German Language Skills I Cr. 3-5.
- GER G325 - German for Teachers Cr. 3.
- GER W300 - Methods of Research and Criticism Cr. 3.
(taught in fall semester; should be taken concurrently with the first 300-level German literature course)

Professional Education

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.

Credits: 1

- EDUC M101 - Laboratory/Field Experience Cr. 0-3.

Credits: 0

- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.

Credits: 3

- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.

Credits: 3

- EDUC M445 - Methods of Teaching Foreign Languages Cr. 3.

- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.

Credits: 10

- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.

Credits: 3

And Select:

Credits: 3

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC P250 - General Educational Psychology Cr. 1-4.

And Select:

Credits: 3

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

Middle School Certification (Recommended)

- EDUC M470 - Practicum Cr. 3-8.

General Elective Courses

- Sufficient additional credits, if necessary, to bring the total to 124.

Total Credits: 124

History (B.A.)

Program: B.A.
Department of History
School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/hist

To earn the B.A. with a major in history, you must fulfill the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and those listed below.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- Additional credits in Area III Credits: 3
- HIST H105 - American History I Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in HIST) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

(if you have satisfied the second writing course requirement with another approved course prior to becoming a history major, you should consult the department chair to discuss the possible need to take HIST H217)

- HIST H217 - The Nature of History Cr. 3.

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in HIST)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Credits in non-Western culture: 3
- HIST H113 - History of Western Civilization I Cr. 3.

Core and Concentration (Major) Courses

- Credits in upper-level American history Credits: 6
- Credits in upper-level Western European history* Credits: 6
- Credits in upper-level Other World history* Credits: 6
- Additional credits in history (H217 excluded) Credits: 3

**HIST H232 may not be used to fulfill the Western European or Other World requirements, but may be used for additional credit toward the major or minor.*

- HIST H105 - American History I Cr. 3.
- HIST H106 - American History II Cr. 3.
- HIST H113 - History of Western Civilization I Cr. 3.
- HIST H114 - History of Western Civilization II Cr. 3.
- HIST J495 - Proseminar for History Majors Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

History Honors Degree (B.A.)

Program: B.A. Honors
Department of History
School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/hist

As an entering student, you become eligible for this honors program by scoring above 600 on the SAT I verbal test or the CEEB history achievement test; thereafter, you must have a GPA of 3.25 or higher or be recommended by a member of the department for admission. Admission to the degree program requires that you submit a written petition to the department no later than the end of your junior year.

Completion of the program requires, in addition to fulfillment of the B.A. requirements, (1) a GPA of 3.30 or higher in history and a cumulative GPA of 3.25 or higher; (2) 9 credits of honors courses, including 6 in history; (3) satisfactory completion in HIST K499 of an honors thesis; and (4) satisfactory defense of the honors thesis.

Hospitality Management (B.S.)

Program: B.S.
Department of Consumer and Family Sciences
School of Health Sciences

Neff Hall 330 ~ 260-481-6562

Men and women with leadership ability are in great demand for managerial and administrative positions in the rapidly expanding hospitality industry. The number of available management positions in the industry continues to exceed the number of hospitality graduates each year. Students from this program assume responsibilities for managerial proficiency at various levels and for providing services in the multitude of situations where people eat or live away from home.

To earn the B.S., you must satisfy the requirements of IPFW (see Part 7), earn a grade of C or better in each required ENG and HTM course, and complete the following requirements:

IPFW General Education Requirements Credits: 30

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

CFS General Distribution Requirements Credits: 9

- ENG W232 - Introduction to Business Writing Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.

Business Core Credits: 9

- BUS A201 - Principles of Financial Accounting Cr. 3.
- CS 106 - Introduction to Computers Cr. 3.
- ECON E200 - Fundamentals of Economics Cr. 3.

Organizational Leadership and Supervision Core Credits: 9

- OLS 376 - Human Resources Issues Cr. 3.
- OLS 454 - Gender and Diversity in Management Cr. 3.
- OLS 476 - Compensation Planning and Management Cr. 3.

Hospitality Management Core Credits: 47

- FNN 303 - Essentials of Nutrition Credits: 3
- FNN 203 - Foods Selection and Preparation Cr. 3.
- HTM 100 - Introduction to the Hospitality and Tourism Industry Cr. 1-3.
- HTM 181 - Lodging Management Cr. 3.
- HTM 191 - Sanitation and Health in Foodservice, Lodging, and Tourism Cr. 3.
- HTM 212 - Organization and Management in the Hospitality and Tourism Industry Cr. 3.
- HTM 231 - Hospitality and Tourism Marketing Cr. 3.
- HTM 251 - Computers in the Hospitality Industry Cr. 3.
- HTM 291 - Quantity Food Production and Service Cr. 2-3.
- HTM 291L - Quantity Food Production and Service Labs Cr. 2.
- HTM 301 - Hospitality and Tourism Industry Practicum Cr. 1.
- HTM 302 - Hospitality and Tourism Industry Internship Cr. 1-4.
- HTM 312 - Human Resources Management for the Service Industries Cr. 3.
- HTM 371 - Introduction to Tourism Cr. 3.
- HTM 411 - Hospitality and Tourism Law Cr. 3.
- HTM 491 - Beverage Management Cr. 2.
- HTM 492 - Advanced Foodservice Management Cr. 4.

Hospitality Electives Credits: 21

- COM 303 - Intercultural Communication Cr. 3.
- HPER R160 - Man, His Leisure, and Recreation Cr. 3.
- HPER R180 - Recreation Leadership Cr. 2.
- HTM 311 - Procurement Management for Foodservice Cr. 3.
- HTM 314 - Franchising Cr. 3.
- HTM 315 - Club Management and Operations Cr. 3.
- HTM 316 - Casino Management Cr. 3.
- HTM 321 - Equipment for Restaurants, Hotels, and Institutions Cr. 3.
- HTM 322 - Hospitality Facilities Management Cr. 3.
- HTM 323 - Foodservice Layout and Design Cr. 3.
- HTM 341 - Cost Controls in Foodservice and Lodging Cr. 3.
- HTM 383 - Resort, Cruise, and Entertainment Operations Cr. 3.
- HTM 391 - Specialty Foodservice and Catering Cr. 3.
- OLS 378 - Labor Relations Cr. 3.

Total Credits: 125

Human Services Completion Degree (B.S.)

Program: B.S. completion degree

Department of Human Services

School of Health Sciences

Neff Hall 120 ~ 260-481-6424

The Bachelor of Science in Human Services is a completion degree that requires a total of 125 semester credit hours with a minimum of 60 semester credits earned during the B.S. completion program, and an additional 65 credits transferred in from an A.S. program in human services. The program is designed to prepare students to become human service professionals who can meet the needs of clients and communities within a diverse society. Examples of job roles that graduates of the degree would be qualified to fill include group home supervisor, substance abuse prevention educator, case manager, social service agency staff/manager, and psychiatric rehabilitation worker/supervisor, among others.

Students are admitted to this degree-completion program as follows:

- Students new to IPFW must complete an application for undergraduate admission and meet the criteria for admission to the university. Students who have previously taken courses at IPFW should apply for re-entry to the university if they have not been actively enrolled at IPFW for one year or greater.
- Students who have completed the requirements for the Associate of Science in human services at IPFW, Ivy Tech Community College, or another human services program from another accredited institution and have a GPA of at least 2.0, will enroll in the program with junior status.
- Students who have not completed the requirements for the Associate of Science in human services will complete those at Ivy Tech Community College but may be admitted to IPFW as a pre-human services student. Pre-human services students may combine studies at IPFW and Ivy Tech to complete the requirements of the Fort Wayne Ivy Tech Community College A.S. in human services and may also work on B.S. completion courses. After meeting the criteria for the A.S., students can be fully admitted to the human services B.S. program. All 300- and 400- level courses must be completed at IPFW. For further information regarding the Fort Wayne Ivy Tech Community College human services A.S. program, please call Jan Vick, 260-480-4113
- All students will be required to meet the regular IPFW and Purdue University admission standards, as presented in the IPFW Bulletin. Pre-human services students will also be required to meet the regular Ivy Tech admission standards.
- Students will be required to complete a program admissions application.
- Students must comply with internship agency requirements for internship placements. These will include a separate interview and may include proof of certain immunizations and/or certification in CPR. Many clinical agencies now require that students provide them with a criminal history check with the Indiana State Police prior to acceptance as clinical students and have varying policies regarding what constitutes an acceptable history for placement with their client population. Anyone with a record of a sex crime against a child may not be placed into an internship in which there is an actual or potential possibility that they will come into contact with children (IC 5-2-12-12). Students who cannot be placed in internships with reasonable effort as a result of their criminal histories and subsequently cannot complete the program requirements will be unable to graduate from the program.

To earn the B.S., you must complete the following requirements:

Credits from an A.S. program in human services Credits:
65

IPFW General Education Requirements Credits: 21

Area I—Linguistic and Numerical Foundations Credits: 3

Choose one:

- SPEA K300 - Statistical Techniques Cr. 3.
(recommended)
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 3

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

- Elective Credits: 3
- PHIL 110 - Introduction to Philosophy Cr. 3.
- PHIL 111 - Ethics Cr. 3.
- PHIL 112 - Religion and Culture Cr. 3.
- PHIL 120 - Critical Thinking Cr. 3.
- PHIL 150 - Principles of Logic Cr. 3.
- PHIL 312 - Medical Ethics Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 6

- Sociology or psychology elective Credits: 3
- Elective Credits: 3

Human Services Core Credits: 15

- COM 303 - Intercultural Communication Cr. 3.
- HSRV 315 - Introduction to Theories and Therapies Cr. 3.
- HSRV 320 - Case Methods Cr. 3.

- HSRV 330 - Psychopharmacology for Human Services Cr. 1.
- HSRV 400 - Internship I Cr. 1-4.
- HSRV 401 - Internship Seminar I Cr. 1.
- HSRV 450 - Internship II Cr. 2-4.
- HSRV 451 - Internship Seminar II Cr. 1.
- NUR 309 - Transcultural Healthcare Cr. 3.

Human Service Concentration Credits: 12

Student works with advisor to identify a group of courses from human services and related disciplines that support a concentration in such areas as addictions, psychiatric rehabilitation, gerontology, child/adolescent services, activity/recreational therapies, and developmental disabilities. These courses prepare students to graduate with knowledge and skills directly applicable to their chosen area of interest within the human services profession.

Required supporting courses Credits: 12

- ENG W233 - Intermediate Expository Writing Cr. 3.
- PSY 329 - Psychobiology II: Principles of Psychobiological Psychology Cr. 3.
or department course
- PSY 350 - Abnormal Psychology Cr. 3.
(or substitution if Ivy Tech PSY 205 completed)

Choose one of the following Credits: 3

- NUR 339 - Research in Healthcare Cr. 3.
- PSY 203 - Introduction to Research Methods in Psychology Cr. 3.
- SOC S352 - Methods of Social Research Cr. 3.

Industrial Engineering Technology (B.S.)

Program: B.S.

Department of Mechanical and Industrial Engineering Technology

College of Engineering, Technology, and Computer Science

*Engineering, Technology, and Computer Science Building 205 ~ 260-481-6385 ~
www.mft.ipfw.edu*

This program prepares graduates with knowledge, technical, analytical, and managerial skills necessary to develop, implement, and improve integrated systems in manufacturing and service

industries that include people, materials, equipment, information, and energy. Graduates will be prepared for careers in higher levels of system design, integration, and management. To earn the B.S. with a major in industrial engineering technology, you must fulfill the requirements of IPFW (see Part 7), the College of Engineering, Technology, and Computer Science (see Part 3), and of the A.S., and complete the following credits, earning a grade of C or better in those courses that serve as prerequisites:

IPFW General Education Requirements

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis

- ENG W421 - Technical Writing Projects Cr. 1-3.

Required Core and Concentration (Major) Courses

- IET 304 - Advanced Metrology Cr. 3.
- IET 350 - Engineering Economy Cr. 3.
- IET 362 - Technological Optimization Cr. 3.
- IET 369 - Manufacturing Simulation Cr. 3.
- IET 401 - Manufacturing Process Planning Cr. 3.
Grade of C or better required
- IET 454 - Statistical Process Control Cr. 3.
- IET 480 - Cost Estimating and Design Cr. 3.
- MET 201 - Statics, Stress, and Strain Cr. 3.
- MET 300 - Applied Thermodynamics Cr. 3.
- MET 347 - Programming of Automation Systems Cr. 3.

Additional Required Technical Courses

- CHM 111 - General Chemistry Cr. 3.
- ECET 211 - Electrical Machines and Controls Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.

Additional Required Support Courses

- BUS A201 - Principles of Financial Accounting Cr. 3.

- COM 323 - Business and Professional Speaking Cr. 3.

Additional Core and Concentration (Major) Electives

- Any two courses from IET or MET or a course approved by an IET advisor Credits: 6

Total including 64 from A.S. Credits: 128

Information Systems (B.S.)

Program: B.S.

Department of Computer Science

College of Engineering, Technology, and Computer Science

Kettler Hall 252 ~ 260-481-6803 ~ www.cs.ipfw.edu/

The Bachelor of Science program helps you prepare for a career as a computer professional as well as for possible graduate study.

In addition to satisfying the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3), you must complete the courses required for the A.S. with a major in information systems (see above) and the following additional courses. Only computer science courses in which you have earned a grade of C or better can be applied to the degree or used to satisfy prerequisites. A maximum of 10 credits of D grades (including any from the A.S. program) will be accepted in other courses.

- Credits in approved second course in business or economics Credits: 3
- Credits in approved advanced communication course Credits: 3
- Additional credits in approved electives Credits: 10

IPFW General Education Requirements Credits: 12

Area II—Natural and Physical Sciences Credits: 3

*See Part 2 General Education Requirements for approved courses
(may be fulfilled by courses satisfying other requirements)*

Area IV—Humanistic Thought Credits: 3

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Core and Concentration (Major) Courses Credits: 27

- Credits in approved advanced electives in CS, BUS, ECON, or MA Credit: 9
- CS 364 - Introduction to Database Systems Cr. 3.
- CS 365 - Advanced Database Systems Cr. 3.
- CS 366 - Structured Analysis Techniques Cr. 3.
- CS 367 - Structured Design Techniques Cr. 3.
- CS 466 - Strategic Issues for Information Systems Cr. 3.
- CS 467 - Project Management Cr. 3.

Supporting Courses Credits: 21

- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

One of the following Credits: 3

- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.
- MA 314 - Introduction to Mathematical Modeling Cr. 3.

One of the following Credits: 3

- STAT 301 - Elementary Statistical Methods I Cr. 3.
- STAT 511 - Statistical Methods Cr. 3.

Total Including 64 from A.S. Credits: 124

Interior Design (B.S.)

Program: B.S.

**Department of Civil and Architectural Engineering
Technology**

College of Engineering, Technology, and Computer Science

*Engineering, Technology, and Computer Science Building 229 ~ 260-481-6797 ~
www.caet.ipfw.edu*

This program prepares graduates to work as interior design professionals providing creative and project management services for a variety of clients including homeowners, business owners, institutions, manufacturers, and those planning special events. This program will be open to those who have completed an associate degree in interior design. Program elective courses allow students to develop a specialty area in theatre design or commercial equipment and kitchen design. Through the three-course senior design requirement, students will graduate with a specialty in one of the following areas: residential design, special populations - aging, healthcare design, education design, hotel design, restaurant design, or corrections design.

To earn the B.S. with a major in interior design, you must satisfy the requirements of IPFW (see Part 7), the College of Engineering, Technology, and Computer Science (see Part 3, and the A.S. degree program. You must earn a grade of C or better in each required INTR course, and complete the requirements listed below:

IPFW General Education Requirements

Area II—Natural and Physical Sciences Credits: 3

Area III—The Individual, Culture, and Society Credits: 3

- SOC S161 - Principles of Sociology Cr. 3.

Area IV—Humanistic Thought Credits: 3

Area V—Artistic Expression Credits: 3

Area VI—Inquiry and Analysis Credits: 3

Core and Concentration (Major) Courses (36 credits)

- XXXX xxx - Interior Design Electives Credits: 6
(department-approved courses)
- XXXX xxx - Interdisciplinary Design Topic Credits: 3
(department-approved courses)

- XXXX xxx - Leadership/Communication Elective Credits: 3
(department-approved courses)
- INTR 306 - Interior and Furniture Styles I Cr. 3.
- INTR 307 - Interior and Furniture Styles II Cr. 3.
- INTR 308 - Contract Interior Design I Cr. 3.
- INTR 309 - Contract Interior Design II Cr. 3.
- INTR 400 - Interior Design Studio I Cr. 3
- INTR 402 - Professional Practice Cr. 3.
- INTR 404 - Interior Design Practicum Cr. 3.

Supporting Courses

- ENG W232 - Introduction to Business Writing Cr. 3.
- OLS 342 - Interviewing Strategies in Organizations Cr. 3.
- VCD P476 - Three-Dimensional Computer Modeling Cr. 3

Total Credits: 60

Interpersonal and Organizational Communication (B.A.)

Program: B.A. Department of Communication School of Arts and Sciences

Neff Hall 230 ~ 260-481-6825 ~ www.ipfw.edu/comm/

This program helps you understand human communication and develop skill and sensitivity in speaking, listening, and participating in varied communication situations. Courses focus on theory and practice in communication tasks ranging from interviewing to addressing large audiences. The degree program helps you prepare for a career in government, sales, public relations, law, public and social service, personnel, or business and industrial communication.

The Department of Communication offers related bachelor's degree programs in media and public communication and in speech communication teaching and a minor in media production for those students who want more courses in practical skills.

To earn the B.A. with a major in interpersonal and organizational communication, you must fulfill the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and the Department of Communication as listed below. You also must earn a minor in an appropriate discipline. Two courses in a major offered in the Department of Communication can also be counted in the required minor. If the minor is selected from an Arts and Sciences department, the courses may be used to satisfy distribution requirements in the School of Arts and Sciences.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundation

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of following Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- *Additional credits in Area III Credits: 3*
- COM 250 - Mass Communication and Society Cr. 3.
Credits: 0
(credits included in Major Courses, below)

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in COM) Credit: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in COM)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.
- COM 250 - Mass Communication and Society Cr. 3.
- COM 300 - Introduction to Communication Research Methods Cr. 3.
- COM 318 - Principles of Persuasion Cr. 3.
- COM 320 - Small Group Communication Cr. 3.
- COM 324 - Introduction to Organizational Communication Cr. 3.

Credits from among the following: 9

- COM 303 - Intercultural Communication Cr. 3.
- COM 310 - Family Communication Cr. 3.
- COM 325 - Interviewing: Principles and Practice Cr. 3.
- COM 410 - Gender Roles and Communication Cr. 3.
- COM 471 - Communicating Peace Cr. 3.
- COM 491 - Special Topics in Communication Cr. 1-3.

Credits from among the following: 6

- COM 507 - Introduction to Semiotics Cr. 3.
- COM 508 - Nonverbal Communication in Human Interaction Cr. 3.
- COM 512 - Theories of Interpersonal Communication Cr. 3.
- COM 516 - Analysis of Persuasive Messages Cr. 3.

- COM 518 - Theories of Persuasion Cr. 3.
- COM 520 - Small Group Communication Cr. 3.
- COM 523 - Communication in Personal Relationships Cr. 3.
- COM 525 - Advanced Interviewing Cr. 3.
- COM 574 - Organizational Communication Cr. 3.

Minor and Elective Courses

- Credits in approved minor Credits: 12–21
- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Labor Studies (B.S.)

Division of Labor Studies Program Offered: B.S.L.S.

Kettler Hall G28 ~ 260-481-6831 ~ www.labor.iu.edu

To earn the Bachelor of Science in Labor Studies, you must fulfill the requirements of IPFW (see Part 7) and successfully complete the following courses.

Program Requirements

Credits from the Labor Studies Core Credits: 15

Credits from the following: 15

- LSTU L100 - Survey of Unions and Collective Bargaining Cr. 3.
- LSTU L101 - American Labor History Cr. 3.
- LSTU L110 - Introduction to Labor Studies: Labor and Society Cr. 3.
- LSTU L190 - The Labor Studies Degree Cr. 1.
- LSTU L200 - Survey of Employment Law Cr. 3.
- LSTU L201 - Labor Law Cr. 3.
- LSTU L203 - Labor and the Political System Cr. 3.
- LSTU L205 - Contemporary Labor Problems Cr. 3.
- LSTU L210 - Workplace Discrimination and Fair Employment Cr. 3.
- LSTU L220 - Grievance Representation Cr. 3.
- LSTU L230 - Labor and the Economy Cr. 3.
- LSTU L240 - Occupational Health and Safety Cr. 3.

- LSTU L250 - Collective Bargaining Cr. 3.
- LSTU L251 - Collective Bargaining Laboratory Cr. 1-3.
- LSTU L255 - Unions in State and Local Government Cr. 3.
- LSTU L260 - Leadership and Representation Cr. 3.
- LSTU L270 - Union Government and Organization Cr. 3.
- LSTU L280 - Union Organizing Cr. 3.

Required Areas of Learning for Labor Studies

Arts and Humanities

- Afro-American Studies
- Classical Studies
- Communication
- Comparative Literature
- English (except R150 and W130)
- Folklore
- Foreign Language
- History
- Journalism
- Music
- Philosophy
- Theatre
- Visual Arts

Sciences and Mathematics

- Anthropology (B200 and E445 only)
- Astronomy
- Biology
- Chemistry (except 100)
- Computer Science (includes BUS K200, K211, K212, K213, K214, K215, K216)
- Economics (E270 only)
- Entomology
- Forestry and Natural Resources
- Geography (G107 and G304 only)
- Geology
- Horticulture
- Mathematics (except 101, 102, 103, 109, 111, and 113)
- Physics
- Psychology (120, 201, 314, 333, 329, and 416 only)
- Sociology (S351 only)
- SPEA (K300 only)
- Statistics

Social and Behavior Sciences

- Anthropology
- Economics
- Geography
- Linguistics
- Political Science
- Psychology
- Sociology
- SPEA (J101 only)
- WOST (W210 only)

Additional credits in labor-studies courses Credits: 27

Arts and Humanities Area of Learning (12 credits)

- Credits in a second writing course Credits: 3
- Credits from at least two different subjects Credits: 6
- ENG W131 - Elementary Composition I Cr. 3.

Social and Behavioral Sciences Area of Learning Credits: 12

Credits; one economics course is required (ECON E201 recommended); courses in this area must be selected from at least two different subjects

Science and Mathematics Area of Learning Credits: 16

Credits, including one course in computer science; science and mathematics courses must be selected from at least two different subjects

Additional Credits from One Area of Learning Credits: 12

Electives Credits: 27

Note

You must earn a minimum of 20 credits after admission to labor studies and may apply toward the degree no more than 21 credits in a single subject other than labor studies. At least 30 of your credits must be in 300/400-level courses, including at least 12 credits in labor studies courses. You must complete at least 24 credits while enrolled as an IU student.

Total Credits: 120

LPN (B.S.)

Program: LPN B.S. Department of Nursing School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/nursing

LPN Mobility

Admission to the nursing program is competitive. LPN applicants must meet the following requirements:

- Be admitted to IPFW as a degree-seeking student (see Part 7).
- Be a graduate of an NLNAC or equivalent accredited practical nursing program.
- Have a minimum GPA of 3.0 or higher upon graduation from the LPN program.
- A minimum GPA does not guarantee admission. The actual GPA necessary for admission varies with the GPA distribution of the applicant pool and the number of available seats for admission.
- Have completed anatomy and physiology within five years of application.
- Applicants are required to take a preadmission examination. The examination is administered on specific dates and times. Applicants pay a testing fee.

NOTE: Students who have previously been dismissed from the IPFW nursing program, or any nursing degree program, and return under the above LPN admission criteria will be dismissed from the program with a failure of any one required nursing course.

LPN–A.S. or LPN–B.S.

A student who earns a grade of C or better in NUR 117 and NUR 224 will be awarded an additional 13 credit hours for the following first-year nursing courses:

NUR 115	5 credits
NUR 130	2 credits
NUR 202	6 credits

Program Requirements

LPN B.S. Core Credits: 70

- NUR (elective) Credits: 3
- NUR 103 - Professional Seminar I Cr. 2.
- NUR 117 - Associate Science Degree in Nursing Mobility Seminar Cr. 1.

- NUR 225 - Maternity Nursing Cr. 3.
- NUR 240 - Psychiatric Mental Health Nursing Cr. 4*.
- NUR 334 - Clinical Pathophysiology Cr. 4.
- NUR 336 - Nursing IIIB: Medical-Surgical Nursing of Adults Cr. 7.
- NUR 337 - Statistics and Data Management in Health Sciences Cr. 3.
- NUR 339 - Research in Healthcare Cr. 3.
- NUR 344 - Introduction to Healthcare Informatics Cr. 2.
- NUR 346 - Advanced Health Assessment Cr. 2.
- NUR 377 - Professional Seminar II Cr. 3.
- NUR 379 - Caring for Children and Families Cr. 3.
- NUR 418 - Community/Public Health Nursing Cr. 5.
- NUR 419 - Advanced Acute Care Nursing Cr. 5.
- NUR 423 - Professional Seminar III Cr. 2.
- NUR 433 - Advanced Concepts in Critical Thinking Cr. 1.
- NUR 442 - Leadership in Nursing Cr. 5.

Supporting Courses Credits: 52

- Credits in communication at the 300-400 level Credits: 3
- Credits in humanities (General Education IV) Credits: 6
- Credits in elective (General Education V) Credits: 3
- Credits in elective Credits: 3
- BIOL 203 - Human Anatomy and Physiology Cr. 4.
and
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- CHM 104 - Living Chemistry Cr. 3.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- FNN 303 - Essentials of Nutrition Cr. 3.
- PCTX 201 - Introductory Pharmacology Cr. 3-4.
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Total Credits: 122

Mathematics (B.S.)

Program Offered: B.S.

Department of Mathematical Sciences

School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

Programs leading to the Bachelor of Science help you prepare for employment in business and industry, teaching in secondary schools, or study for advanced degrees. As a mathematics major you choose one of six options: actuarial science, business, computing, mathematics, mathematics teaching, or statistics.

To earn a B.S. with a major in mathematics, you must satisfy the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and the Department of Mathematical Sciences. Required course work appears below.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- MA The quantitative-reasoning requirement is satisfied by mathematics courses below. Credits: 0
- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

See Part 2 General Education Requirements for approved courses

- Includes two laboratory courses (*The science courses must be selected from a list approved by the department.*) Credits: 11

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in MA) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

Requirements in Arts and Sciences Part B Credits: 8

Core and Concentration (Major) Courses

Of the mathematics courses numbered below 261, only 165, 166, and 175 apply toward the degree; statistics courses must be numbered 490 or higher to be counted. You must have a grade-point average of C or better with at most one D in courses used to fulfill the major requirements.

- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
and
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 263 - Multivariate and Vector Calculus Cr. 4.
- MA 351 - Elementary Linear Algebra Cr. 3.

Choose one of the following:

- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 275 - Intermediate Discrete Math Cr. 3.

Option Courses (see below) Credits: 46–56

General Elective Courses

- Sufficient additional credits, if necessary, to bring the total to 124

Total Credits: 124

Actuarial Science Option

This option, designed in consultation with professionals from the insurance industry, includes courses that help you prepare for a variety of positions in that field. In particular, it helps you prepare for the first of the series of examinations by the Society of Actuaries. Additional information is available from the department.

- Credits in three electives selected from a list of courses approved by the department Credits: 9
- Credits in electives (two additional finance courses, BUS F302 and F420 highly recommended) Credits: 13-16
- BUS A201 - Principles of Financial Accounting Cr. 3.
- BUS A202 - Principles of Managerial Accounting Cr. 3.
- BUS F301 - Financial Management Cr. 3.
(before enrolling in F301, you must complete the following with grades of C or better:
BUS A201-A202, CS 160, ECON E201-E202, MA 165, and STAT 511)
- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.
- STAT 511 - Statistical Methods Cr. 3.
- STAT 512 - Applied Regression Analysis Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.
- STAT 517 - Statistical Inference Cr. 3.

Business Option

This option is designed for students who plan to pursue a career in business or industry. In addition to obtaining useful mathematics and statistics tools, the student who completes his option will also receive a minor in business.

Option Specific Courses Credits: 21

- Credits in courses selected from a departmentally approved list (MA 363, 417/418, 441, 453, 511, 525, STAT 514, 517) Credits: 6
- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 314 - Introduction to Mathematical Modeling Cr. 3.
- STAT 511 - Statistical Methods Cr. 3.
- STAT 512 - Applied Regression Analysis Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Business Minor Credits: 22

- BUS A201 - Principles of Financial Accounting Cr. 3.
- BUS A202 - Principles of Managerial Accounting Cr. 3.
- BUS K211 - Spreadsheets for Business Cr. 1.
- BUS K212 - Introduction to Database Management Cr. 1.
- BUS K213 - Internet Literacy for Business Cr. 1.
- BUS L200 - Elements of Business Law Cr. 1.
- BUS W204 - Social, Legal, and Ethical Implications of Business Decisions Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.
(counted as a general education course in Area III)
- ECON E202 - Introduction to Macroeconomics Cr. 3.

Credits in two courses selected from the following list Credits: 6

- BUS D300 - International Business Administration Cr. 3.
- BUS F301 - Financial Management Cr. 3.
- BUS M301 - Marketing Management in a Competitive Environment Cr. 3.
- BUS P301 - Managing Operations in a Competitive Environment Cr. 3.
- BUS Z302 - Management of Organizations and People Cr. 3

General elective courses Credits: 10–13

Total Credits: 53-56

Computing Option

This option helps you prepare for computer-related careers for which a strong mathematical background is advantageous. The student who completes this option will also receive a minor in computer science.

Option Specific Courses Credits: 15

- MA 305 - Foundations of Higher Mathematics Cr. 3.

One of the following Credits: 3

- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

One of the following Credits: 3

- MA 441 - Real Analysis Cr. 3.
- MA 453 - Elements of Algebra Cr. 3.
- MA 511 - Linear Algebra with Applications Cr. 3.
- MA 556 - Introduction to the Theory of Numbers Cr. 3.
- MA 575 - Graph Theory Cr. 3.

Two of the following Credits: 6

- MA 441, 453, 511, 556, 575, STAT 511, or STAT 516 if not taken to satisfy above requirements.
- MA 314 - Introduction to Mathematical Modeling Cr. 3.
- MA 363 - Differential Equations Cr. 3.

- MA 417 - Mathematical Programming Cr. 3.
- STAT 512 - Applied Regression Analysis Cr. 3.
- STAT 517 - Statistical Inference Cr. 3.

Computer Science Minor Credits: 22

- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- CS 331 - Introduction to C++ and Object-Oriented Programming Cr. 3.

Two of the following Credits: 6

- Select two courses from a departmentally approved list Credits: 6
- Credits in electives: 16–19
- CS 384 - Numerical Analysis Cr. 3.
- CS 486 - Analysis of Algorithms Cr. 3.
- CS 488 - Theory of Computation Cr. 3.
- CS 543 - Introduction to Simulation and Modeling of Computer Systems Cr. 3.
- CS 572 - Heuristic Problem Solving Cr. 3.

Total Credits: 53-56

Mathematics Option

This option helps you prepare for graduate study in the mathematical sciences or for work in fields where a strong mathematical background is required.

Program Requirements

- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 363 - Differential Equations Cr. 3.
- MA 441 - Real Analysis Cr. 3.
- MA 453 - Elements of Algebra Cr. 3.

One of the following Credits: 3

- Credits in courses selected from a departmentally approved list Credits: 6
- Credits in electives: 31–34
- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Total Credits: 52-55

Mathematics Teaching Option

This option provides the mathematical preparation necessary for teaching secondary-school mathematics in Indiana. You are encouraged to choose and complete a teaching minor.

Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The Praxis II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

Information on additional requirements for teacher certification is available in the department office.

Program Requirements

- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 453 - Elements of Algebra Cr. 3.
- MA 560 - Fundamental Concepts of Geometry Cr. 3.

One of the following Credits: 3

- Credits in courses selected from a departmentally approved list Credits: 6
- Credits in electives: 34–37
- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Total Credits: 52–55

Statistics Option

This option helps you prepare for careers in business and industry and emphasizes the statistical methods used in decision making. It also provides entry-level preparation for an actuarial career.

Program Requirements

- Credits in courses selected from a departmentally approved list Credits: 6
- Credits in electives: 31–34
- STAT 511 - Statistical Methods Cr. 3.
- STAT 512 - Applied Regression Analysis Cr. 3.
- STAT 514 - Design of Experiments Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.
- STAT 517 - Statistical Inference Cr. 3.

Note

The research certificate is described under Arts and Sciences in Part 3 of this Bulletin.

Total Credits: 52-55

Mathematics Teaching (B.S.)

Program: B.S.

Department of Mathematical Sciences

School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

The B.S. program provides the mathematical preparation necessary for teaching secondary-school mathematics in Indiana and is designed to meet standards for teacher certification. Information on additional requirements for teacher certification is available in the department office. You are encouraged to choose and complete a teaching minor.

To earn a B.S. with a major in mathematics teaching, you must satisfy the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and the Department of Mathematical Sciences. Required course work appears below. (Note that you are not required to include foreign-language study.)

You should work closely with your academic advisor when choosing free electives and courses to meet the IPFW general-education requirements so as to ensure completion of the certification requirements set by the Indiana Professional Standards Board for teacher certification. Full information about teacher certification is available from the School of Education. To be certified, you must have a GPA of 2.00 or higher in the School of Arts and Sciences' general-education distribution areas of humanities and social and behavioral sciences. Additionally, you must have a GPA of 2.50 or higher in your teaching major of mathematical sciences and the professional education courses listed below. Each professional education course must be completed with a grade of C or better.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUC K201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- **MA** - The quantitative-reasoning requirement is satisfied by mathematics courses below. Credits: 0
- **COM 114** - Fundamentals of Speech Communication Cr. 3.

One of the following Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences Credits: 11

See Part 2 General Education Requirements for approved courses

Includes two laboratory courses. (Science courses must be selected from list approved by the department.)

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in MA) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Core and Concentration (Major) Courses

Of the mathematics courses numbered below 261, only 165, 166, and 175 apply toward the degree; statistics courses must be numbered 490 or higher to be counted. You must have a grade-point average of C or better with at most one D in courses used to fulfill the mathematics concentration.

- Credits in courses selected from a departmentally approved list Credits: 6
- CS 114 - Introduction to Visual Basic Cr. 3.
or
- CS 160 - Introduction to Computer Science I Cr. 4.

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 263 - Multivariate and Vector Calculus Cr. 4.
- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 453 - Elements of Algebra Cr. 3.
- MA 560 - Fundamental Concepts of Geometry Cr. 3.

One of the following: Credits: 3

- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Professional Education

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC M448 - Methods of Teaching High School Mathematics Cr. 2-4.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
- EDUC P250 - General Educational Psychology Cr. 1-4.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.

Middle School Certification (Recommended)

- EDUC M470 - Practicum Cr. 3-8.

General Elective Courses

Sufficient additional credits to bring the total to 124. Some may be restricted depending on choices for general education requirements. You are encouraged to acquire a teaching minor (see School of Education for information).

Total Credits: 124

Mechanical Engineering (B.S.M.E.)

Program: B.S.M.E.

Department of Engineering

College of Engineering, Technology, and Computer Science

*Engineering, Technology, and Computer Science Building 327 ~ 260-481-6362 ~
www.engr.ipfw.edu*

B.S.M.E. Requirements

To earn the B.S.M.E. at IPFW, you must satisfy the requirements of IPFW (see Part 7) and the College of Engineering, Technology, and Computer Science (see Part 3); follow the special academic regulations that appear at the end of this section; and satisfactorily complete the following courses:

IPFW General Education Requirements Credits: 36

Area I—Linguistic and Numerical Foundations Credits: 10

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.

Area II—Natural and Physical Sciences Credits: 9

- CHM 115 - General Chemistry Cr. 4.
- PHYS 152 - Mechanics Cr. 5.

Area III—The Individual, Culture, and Society Credits: 3

See Part 2 General Education Requirements for approved courses with the exception of IET 105.

- ECON E201 - Introduction to Microeconomics Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses.

Area V—Creative and Artistic Expression Credits: 2

- ENGR 120 - Graphical Communications and Spatial Analysis Cr. 2.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses with the exception of: MA 314, PHYS 325 and STAT 340

Freshman Engineering Credits: 6

- ENGR 101 - Introduction to Engineering Cr. 1.
- ENGR 121 - Computer Tools for Engineers Cr. 2.
- ENGR 199 - Introduction to Engineering Design Cr. 3.

Mathematics and Science Requirements Credits: 19

- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.

Core and Concentration (Major) Courses Credits: 50

- ME 293 - Measurements and Instrumentation Laboratory Credits: 2
- ENGR 221 - C and C++ Programming for Engineers Cr. 2.
- ME 200 - Thermodynamics I Cr. 3.
- ME 250 - Statics Cr. 3.
- ME 251 - Dynamics Cr. 3.
- ME 252 - Strength of Materials Cr. 3.
- ME 301 - Thermodynamics II Cr. 3.
- ME 303 - Material Science and Engineering Cr. 2.
- ME 304 - Mechanics and Materials Laboratory Cr. 1.
- ME 318 - Fluid Mechanics Cr. 3.
- ME 319 - Fluid Mechanics Laboratory Cr. 1.
- ME 321 - Heat Transfer Cr. 3.
- ME 322 - Heat Transfer Laboratory Cr. 1.

- ME 361 - Kinematics and Dynamics of Machinery Cr. 3.
- ME 369 - Machine Design Cr. 3.
- ME 371 - System Dynamics and Introduction to Control Cr. 4.
- ME 387 - Electronics and System Engineering through Robotics Cr. 3.
- ME 388 - Electronics and System Engineering through Robotics Lab Cr. 1.
- ME 487 - Mechanical Engineering Design I Cr. 3.
- ME 488 - Mechanical Engineering Design II Cr. 3.

Required Electrical and Computer Engineering Courses

Credits: 3

- ECE 201 - Linear Circuit Analysis I Cr. 3.

Technical Elective Courses Credits: 12

Mechanical Engineering

- ME 373 - Numerical Methods for Engineers Cr. 3.
- ME 421 - Heating and Air Conditioning I Cr. 3.
- ME 424 - Design and Optimization of Thermal Systems Cr. 3.
- ME 425 - Intermediate Heat Transfer: Theory and Applications Cr. 3.
- ME 453 - Experimental Stress Analysis Cr. 3.
- ME 454 - Intermediate Dynamics with Computer Applications Cr. 3.
- ME 469 - Advanced Mechanics of Materials Cr. 3.
- ME 471 - Vibration Analysis Cr. 3.
- ME 480 - Finite Element Analysis Cr. 3.
- ME 497 - Mechanical Engineering Projects Cr. 1-6.
- ME 498 - Research in Mechanical Engineering I Cr. 3.
- ME 499 - Research in Mechanical Engineering II Cr. 3.

Electrical and Computer Engineering

- ECE 382 - Feedback System Analysis and Design Cr. 3.
- ECE 418 - Introduction to Computer Graphics Cr. 3.
- ECE 483 - Digital Control Systems - Analysis and Design Cr. 3.

Mathematics and Sciences

- CHM 371 - Physical Chemistry Cr. 3.
- MA 510 - Vector Calculus Cr. 3.
- MA 511 - Linear Algebra with Applications Cr. 3.
- MA 523 - Introduction to Partial Differential Equations Cr. 3.
- MA 525 - Introduction to Complex Analysis Cr. 3.

- PHYS 322 - Optics Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- STAT 511 - Statistical Methods Cr. 3.
- STAT 512 - Applied Regression Analysis Cr. 3.

Total Courses: 126

Mechanical Engineering Technology (B.S.)

Program: B.S.

**Department of Mechanical and Industrial
Engineering Technology**

**College of Engineering, Technology, and Computer
Science**

*Engineering, Technology, and Computer Science Building 205 ~ 260-481-6385 ~
www.mft.ipfw.edu*

This program prepares graduates with knowledge, problem-solving ability, and hands-on skills to enter careers in analysis, applied design, development, implementation, manufacturing, testing, technical sales, evaluation, or oversight of mechanical systems and processes.

To earn the B.S. with a major in mechanical engineering technology, you must fulfill the requirements of IPFW (see Part 7); the College of Engineering, Technology, and Computer Science (see Part 3); and the A.S., and complete the following courses, earning a grade of C or better in those courses that serve as prerequisites:

IPFW General Education Requirements

Area III—The Individual, Culture, and Society

- ECON E201 - Introduction to Microeconomics Cr. 3.

Area IV—Humanistic Thought

See Part 2 General Education Requirements for approved courses Credits: 3

Area V—Creative and Artistic Expression

See Part 2 General Education Requirements for approved courses Credits: 3

Area VI—Inquiry and Analysis Credits: 6

Required Core and Concentration (Major) Courses

- IET 350 - Engineering Economy Cr. 3.
- MET 247 - Computer-Aided Tool and Fixture Design Cr. 3.
- MET 300 - Applied Thermodynamics Cr. 3.
Grade of C or better required
- MET 312 - Dynamics and Mechanisms Cr. 3.
- MET 347 - Programming of Automation Systems Cr. 3.
- MET 350 - Applied Fluid Mechanics Cr. 3.
- MET 360 - Heating, Ventilating, and Air Conditioning Cr. 3.
- MET 381 - Engineering Materials Cr. 3.
- MET 487 - Instrumentation and Automatic Control Cr. 3.
- MET 494 - Senior Design and Analysis Cr. 3.

Additional Required Technical Courses

- CHM 111 - General Chemistry Cr. 3.
- ECET 211 - Electrical Machines and Controls Cr. 3.
- MA 227 - Calculus for Technology I Cr. 4.
Grade of C or better required
- MA 228 - Calculus for Technology II Cr. 3.

Computer Programming Elective Credits: 3

Additional Required Support Courses

- COM 323 - Business and Professional Speaking Cr. 3.

Additional Core and Concentration Electives Credits: 6

- Any two courses from IET and MET, or a course approved by an MET advisor.

Total Credits Including 65 from A.S.: 132

Media and Public Communication (B.A.)

Program: B.A.

Department of Communication

School of Arts and Sciences

Neff Hall 230 ~ 260-481-6825 ~ www.ipfw.edu/comm/

The major in media and public communication offers theoretical, critical, and practical perspectives to help you navigate the changing communication environment of the 21st century. The courses in this major help you understand communication and media practices and adapt to new technologies. These courses provide concepts and skills that enable you to think and write critically about media and public communication in relation to society, culture, and everyday life. In addition, course areas are available that give you practical experience in message design, media production, and communication performance. Graduates of the program have careers in public information, media production, writing for media, management, sales, advertising, and public relations.

The Department of Communication offers a bachelor's degree in interpersonal and organizational communication and a minor in media production for those students who want more courses in practical skills. Two courses in a major offered in the Department of Communication can also be counted in the required minor. If the minor is selected from an Arts and Sciences department, the courses may be used to satisfy distribution requirements in the school.

To earn the B.A. with a major in media and public communication, you must fulfill the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and the Department of Communication as listed below. You also must earn a minor in an appropriate discipline.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- Additional credits in Area III Credits: 3
- COM 250 - Mass Communication and Society Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in COM) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in COM)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.
- COM 250 - Mass Communication and Society Cr. 3.
- COM 300 - Introduction to Communication Research Methods Cr. 3.
- COM 318 - Principles of Persuasion Cr. 3.
- COM 330 - Theories of Mass Communication Cr. 3.

One of the following Credits: 3

- COM 251 - Introduction to the Electronic Mass Media Cr. 3.
Course taken to satisfy this requirement cannot also be counted in the 9 credit block below
- COM 316 - Controversy in American Society Cr. 3.
Course taken to satisfy this requirement cannot also be counted in the 9 credit block below

Credits from among the following: Credits: 9

- COM 251 - Introduction to the Electronic Mass Media Cr. 3.
Course taken to satisfy this requirement cannot also be counted in the 9 credit block below
- COM 303 - Intercultural Communication Cr. 3.
- COM 312 - Rhetoric in the Western World Cr. 3.
- COM 314 - Advanced Presentational Speaking Cr. 3.
- COM 316 - Controversy in American Society Cr. 3.
Course taken to satisfy this requirement cannot also be counted in the 9 credit block below
- COM 325 - Interviewing: Principles and Practice Cr. 3.
- COM 332 - Television Studio Production Cr. 3.
- COM 338 - Documentary and Experimental Film and Video Cr. 3.
- COM 352 - Mass Communication Law Cr. 3.
- COM 422 - Women, Men, and Media Cr. 3.
- COM 471 - Communicating Peace Cr. 3.
- COM 491 - Special Topics in Communication Cr. 1-3.

Credits from among the following Credits: 6

- COM 507 - Introduction to Semiotics Cr. 3.
- COM 515 - Persuasion in Social Movements Cr. 3.
- COM 516 - Analysis of Persuasive Messages Cr. 3.
- COM 517 - Communication in Politics Cr. 3.
- COM 518 - Theories of Persuasion Cr. 3.
- COM 521 - Theories of Rhetoric Cr. 3.
- COM 522 - History and Criticism of Public Communication Cr. 3.
- COM 527 - Introduction to Cultural Studies Cr. 3.
- COM 531 - Special Topics in Mass Communication Cr. 3.

- COM 557 - Legal Dimensions of Communication Cr. 3.
- COM 563 - Public Policy in Telecommunication Cr. 3.

Minor and Elective Courses

- Credits in an approved minor Credits: 12–21
- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Medical Technology (3+1 Program) (B.S.)

Program: B.S.

Department of Biology

School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

Dual B.S. in Biology and in Medical Technology (4+1 Program)

Under this plan you meet all the requirements for a B.S. with a major in biology. Then, during your senior year, you seek admission to an approved hospital school of medical technology and complete one year of technical experience there the following year. Upon successful completion of the hospital-school year, you have the option of petitioning IPFW for a second baccalaureate degree (dual B.S. in biology and medical technology).

B.S. with a Major in Medical Technology (3+1 Program)

Under this plan, you complete three years of course work at IPFW and then spend 12 months in an approved hospital medical technology program. To earn a B.S. with a major in medical technology under the 3+1 program, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3). You must also earn a GPA of 2.50 or higher in the biology core and in Group B-elective courses in biology. All biology courses applied toward graduation must be completed within 10 years from the time the first biology course was completed.

The Department of Biology has new facilities for its teaching and research programs, and its faculty represent many different fields within biology.

In the first semester of your junior year, you should see your advisor for assistance with applying to an approved school of medical technology. An approved school is one certified by Purdue University; Parkview Hospital in Fort Wayne is among those affiliated with this program.

When you are admitted to the hospital school for your final year, you must maintain registered-student status at IPFW for the fall and spring semesters and for both summer sessions. Upon successful completion of 12 months in the hospital school, you may substitute that experience for as much as 32 credits toward the B.S. in medical technology. You are responsible for seeing that IPFW receives official notification that you have successfully completed the hospital program.

To earn a B.S. with a major in medical technology under the 3+1 program, you must complete the following courses:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
(credits included in Supporting Courses, below)

One of the following Credits: 0

(credits included in Supporting Courses, below):

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Mathematics

- MA - See Part 2 General Education Requirements for approved courses Credits: 3

Area II—Natural and Physical Sciences

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
(credits included in Biology Core, below)
- CHM 115 - General Chemistry Cr. 4.
(credits included in Supporting Courses, below)

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis

Credits included in Supporting Courses, below

- CHM 224 - Introductory Quantitative Analysis Cr. 4.

Biology Core Courses (18 credits)

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.

Supporting Courses (57–59 credits)

- CS 107 - Introduction to Computers for Science Majors Credits: 3
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- STAT 240 - Statistical Methods for Biology Cr. 3.
- STAT 340 - Elementary Statistical Methods II Cr. 3.

One of the following sequences Credits: 8-10

- PHYS 201 - General Physics I Cr. 5.
- PHYS 202 - General Physics II Cr. 5.
- or
- PHYS 220 - General Physics Cr. 4.
- PHYS 221 - General Physics Cr. 4.

Credits in an international language Credits: 8

B-Elective Courses in Biology (10–11 credits)

- BIOL 437 - General Microbiology Cr. 4.
- BIOL 537 - Immunobiology Cr. 3.

Additional credits from among the following Credits: 3–4

- BIOL 215 - Basic Human Anatomy Cr. 4.
- BIOL 315 - Developmental Anatomy Cr. 4.
- BIOL 350 - Plant Physiology Cr. 4.
- BIOL 381 - Cell Biology Cr. 3.
- BIOL 382 - Laboratory in Cell Biology Cr. 1.
- BIOL 455 - Animal Physiology Cr. 3.
- BIOL 456 - Laboratory in Animal Physiology Cr. 1.
- BIOL 506 - Human Molecular Genetics Cr. 3.
- BIOL 509 - Molecular Biology and Applications Cr. 3.
- BIOL 515 - Molecular Genetics Cr. 3.
- BIOL 516 - Molecular Biology of Cancer Cr. 3.
- BIOL 533 - Medical Microbiology Cr. 3.
- BIOL 540 - Biotechnology Cr. 3.
- BIOL 544 - Principles of Virology Cr. 3.
- BIOL 559 - Endocrinology Cr. 3.
- BIOL 565 - Immunobiology Laboratory Cr. 1.
- BIOL 566 - Developmental Biology Cr. 3.
- BIOL 567 - Laboratory in Developmental Biology Cr. 1.
- BIOL 569 - Cellular Neurobiology Cr. 3.
- BIOL 584 - Molecular Biology and Applications Laboratory Cr. 1.

Hospital Program Credits: 32

Total Credits: 135–138

Music and an Outside Field (B.S.)

Program: B.S.

Department of Music

School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714 ~ www.ipfw.edu/vpa

This degree combines a major in music with an opportunity to study in one of many available nonmusic areas, such as business, communication, electrical engineering technology, psychology, or the sciences. Some outside fields have specific course requirements. Students should consult with an advisor in the Department of Music for this information. Some outside fields require a 3-credit internship as a part of the outside field hours, and others offer the internship as an option. Consult with your advisor. Ensemble participation is not required during the semester of internship.

To earn the B.S. in Music and an Outside Field, one must satisfy the requirements of IPFW (see Part 7) and the music core, and complete the courses listed below. Credits required in the outside field must be approved in writing by an appropriate faculty member in the outside-field program of study. A record of this approval from the outside-field department will be kept as a part of your permanent file. A maximum of 6 credits in the outside field may be taken with the pass/not-pass option. An overall GPA of 2.50 or higher must be maintained in the outside field and is required for graduation. A course with a grade lower than C will not be counted toward outside-field course requirements.

IPFW General Education Requirements (33 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

Reading/Writing Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.

Quantitative Reasoning Credits: 3

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Music majors may not use MUS Z101 to fulfill Area IV requirements

- MUS Z105 - Traditions in World Music Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Music majors may not use MUS Z140 to fulfill Area V requirements

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Music Core Credits: 33

- MUS G370 - Techniques for Conducting Cr. 2.
- MUS M201 - Music Literature I Cr. 2.
- MUS M202 - Music Literature II Cr. 2.
- MUS M403 - History of Music I Cr. 3.
- MUS M404 - History of Music II Cr. 3.
- MUS T113 - Music Theory I Cr. 3.
- MUS T114 - Music Theory II Cr. 3.
- MUS T115 - Sightsinging and Aural Perception I Cr. 1.
- MUS T116 - Sightsinging and Aural Perception II Cr. 1.
- MUS T213 - Music Theory III Cr. 3.
- MUS T214 - Music Theory IV Cr. 3.
- MUS T215 - Sightsinging and Aural Perception III Cr. 1.
- MUS T216 - Sightsinging and Aural Perception IV Cr. 1.
- MUS T315 - Analysis of Musical Form Cr. 3.
- MUS U109 - Computer Skills for Musicians Cr. 2.

Performance Studies Credits: 29-30

Applied Primary (includes recital) Credits: 14

- MUS X095 - Performance Class Cr. 0.
(6 semesters)
- MUS X296 - Applied Music Upper Divisional Jury Examination Cr. 0.
- MUS X299 - Piano Proficiency Examination Cr. 0.
- MUS X301 - Recital: Concentration Level Cr. 0.

Applied Secondary Credits: 4-8

Non-keyboard concentrates take:

- MUS P111 - Class Piano I Cr. 1-2.
- MUS P121 - Class Piano II Cr. 1-2.
- MUS P131 - Class Piano III Cr. 1-2.
- MUS P141 - Class Piano IV Cr. 1-2.

Keyboard concentrates take:

- and 200-level applied study (**6 credits**)
- MUS P211 - Keyboard Techniques Cr. 1-2.

Ensembles Credits: 7-8

Outside Field Credits: 26-30

Some outside fields include in this credit range a 3-credit internship. These outside fields require only seven semesters of ensemble participation; consult your advisor.

Other Requirements

- Free electives Credits: 4-9

Total Credits: 129–137

Music Education (B.Mus.Ed)

Program: B.Mus.Ed.

Department of Music

School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714 ~ www.ipfw.edu/vpa

The music-education program provides preparation for teaching music in grades K–12. One may choose to concentrate in choral/general music education, or instrumental/general music education. Upon satisfactory completion of this program, one is eligible to apply for an Indiana teaching license in the appropriate concentration.

To earn the B.Mus.Ed., one must satisfy the requirements of IPFW (see Part 7), the music core, and the School of Education (see Part 3) and satisfactorily complete all music and professional education courses with a grade of C or better.

IPFW General Education Requirements Credits: 33

Area I—Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

Reading/Writing Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.

Quantitative Reasoning Credits: 3

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Music majors may not use MUS Z101 to fulfill Area IV requirements

- MUS Z105 - Traditions in World Music Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Music majors may not use MUS Z140 to fulfill Area V requirements

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Music Core Credits: 33

- MUS G370 - Techniques for Conducting Cr. 2.
- MUS M201 - Music Literature I Cr. 2.
- MUS M202 - Music Literature II Cr. 2.
- MUS M403 - History of Music I Cr. 3.
- MUS M404 - History of Music II Cr. 3.
- MUS T113 - Music Theory I Cr. 3.
- MUS T114 - Music Theory II Cr. 3.
- MUS T115 - Sightseeing and Aural Perception I Cr. 1.
- MUS T116 - Sightseeing and Aural Perception II Cr. 1.

- MUS T213 - Music Theory III Cr. 3.
- MUS T214 - Music Theory IV Cr. 3.
- MUS T215 - Sightsinging and Aural Perception III Cr. 1.
- MUS T216 - Sightsinging and Aural Perception IV Cr. 1.
- MUS T315 - Analysis of Musical Form Cr. 3.
- MUS U109 - Computer Skills for Musicians Cr. 2.

Performance Studies Credits: 29

Applied Primary (includes recital) Credits: 14

- MUS X296 - Applied Music Upper Divisional Jury Examination Cr. 0.

Applied Secondary Credits: 4-7

- MUS X095 - Performance Class Cr. 0.
- MUS X299 - Piano Proficiency Examination Cr. 0.
- MUS X301 - Recital: Concentration Level Cr. 0.

Non-keyboard concentrates take:

- MUS P111 - Class Piano I Cr. 1-2.
- MUS P121 - Class Piano II Cr. 1-2.
- MUS P131 - Class Piano III Cr. 1-2.
- MUS P141 - Class Piano IV Cr. 1-2.

Keyboard concentrates take:

- and 200-level applied study (**6 credits**)
- MUS P211 - Keyboard Techniques Cr. 1-2.

Ensembles Credits: 7

Professional Music Courses Credits: 10

- MUS K312 - Arranging for Instrumental and Vocal Groups Cr. 2.
- MUS M216 - Music Education Lab/Field Experience Cr. 0.
- MUS M236 - Introduction to Music Education Cr. 2.
- MUS M317 - Music Education Lab/Field Experience Cr. 0.
- MUS M318 - Music Education Lab/Field Experience Cr. 0.
- MUS M319 - Music Education Lab/Field Experience Cr. 0.

- MUS M337 - Methods and Materials for Teaching Instrumental Music Cr. 2.
- MUS M338 - Methods and Materials for Teaching Choral Music Cr. 2.
- MUS M339 - General Music Methods K-8 Cr. 2.
- MUS X297 - Music Education Upper Divisional Skills Examination Cr. 0.

Professional Music Concentration Courses Credits: 7-9

Choral and General Music

- MUS E494 - Voice Pedagogy Cr. 3.
- MUS G371 - Choral Conducting I Cr. 2.
- MUS V201 - Voice Class Cr. 1.
(nonvocal concentrates only)

Three of the following Credits: 3

- MUS G261 - String Techniques Cr. 1-2.
- MUS G272 - Clarinet and Saxophone Techniques Cr. 1-2.
- MUS G281 - Brass Instrument Techniques Cr. 1-2.
- MUS G337 - Woodwind Techniques Cr. 1-2.
- MUS G338 - Percussion Techniques Cr. 1-2.

Instrumental and General Music

- MUS G373 - Instrumental Conducting Cr. 2.
- MUS V201 - Voice Class Cr. 1.

Four of the following (excluding primary instrument) Credits: 4

- MUS G261 - String Techniques Cr. 1-2.
- MUS G272 - Clarinet and Saxophone Techniques Cr. 1-2.
- MUS G281 - Brass Instrument Techniques Cr. 1-2.
- MUS G337 - Woodwind Techniques Cr. 1-2.
- MUS G338 - Percussion Techniques Cr. 1-2.

Professional Education Courses Credits: 22

A GPA of 2.5 is required.

- EDUC M501 Portfolio Credits: 0
- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC M482 - Student Teaching: All Grades Cr. 1-16.

- EDUC P250 - General Educational Psychology Cr. 1-4.
- EDUC P254 - Educational Psychology for Teachers of All Grades Cr. 1-4.

Total Credits: 129–137

Music Performance (B.MUS.)

Program: B.Mus.

Department of Music

School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714 ~ www.ipfw.edu/vpa

The Bachelor of Music program provides an opportunity to earn a performance degree in voice, winds, strings, piano, or percussion.

To earn the Bachelor of Music, one must satisfy the requirements of IPFW (see Part 7) and the music core, and satisfactorily complete the following courses, and earn a grade of C or better in each music course.

IPFW General Education Requirements (33 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

Reading/Writing Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.

Quantitative Reasoning Credits: 3

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Music majors may not use MUS Z101 to fulfill Area IV requirements

- MUS Z105 - Traditions in World Music Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

- Music majors may not use MUS Z140 to fulfill
- Area V requirements
- Vocal Performance Majors must take THTR 134

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Music Core Credits: 33

- MUS G370 - Techniques for Conducting Cr. 2.
- MUS M201 - Music Literature I Cr. 2.
- MUS M202 - Music Literature II Cr. 2.
- MUS M403 - History of Music I Cr. 3.
- MUS M404 - History of Music II Cr. 3.
- MUS T113 - Music Theory I Cr. 3.
- MUS T114 - Music Theory II Cr. 3.
- MUS T115 - Sightsinging and Aural Perception I Cr. 1.
- MUS T116 - Sightsinging and Aural Perception II Cr. 1.
- MUS T213 - Music Theory III Cr. 3.
- MUS T214 - Music Theory IV Cr. 3.
- MUS T215 - Sightsinging and Aural Perception III Cr. 1.
- MUS T216 - Sightsinging and Aural Perception IV Cr. 1.
- MUS T315 - Analysis of Musical Form Cr. 3.
- MUS U109 - Computer Skills for Musicians Cr. 2.

Performance Studies Credits: 32

Applied Primary (includes recital) Credits: 16

- MUS X296 - Applied Music Upper Divisional Jury Examination Cr. 0.

Applied Secondary Credits: 4-7

- MUS X095 - Performance Class Cr. 0.
- MUS X299 - Piano Proficiency Examination Cr. 0.
- MUS X401 - Junior Recital: Performance Major Cr. 0.
- MUS X402 - Senior Recital: Performance Major Cr. 0.

Non-keyboard concentrates take:

- MUS P111 - Class Piano I Cr. 1-2.
- MUS P121 - Class Piano II Cr. 1-2.
- MUS P131 - Class Piano III Cr. 1-2.
- MUS P141 - Class Piano IV Cr. 1-2.

Keyboard concentrates take:

- and 200-level applied study (**6 credits**)
- MUS P211 - Keyboard Techniques Cr. 1-2.

Ensembles Credits: 8

Keyboard majors take major ensembles for 6 semesters and

- MUS X002 - Piano Accompanying Cr. 1-2.
for 2 semesters

Professional Music Courses and Free Electives Credits: 26

Piano Majors (26 credits)

- Keyboard literature Credits: 3
- Piano pedagogy Credits: 3
- Electives in music Credits: 6
- Free electives Credits: 14

Voice Majors (26 credits)

- Song literature Credits: 3
- Foreign language Credits: 8
- Diction Credits: 4
- Vocal pedagogy Credits: 3
- Opera Ensemble Credits: 2
- Elective credits in music Credits: 3
- Free electives Credits: 3

Instrumental Majors (26 credits)

- Instrumental literature Credits: 3
 - Instrumental pedagogy Credits: 2
 - Additional ensembles Credits: 6
- Refer to *Department of Music Handbook*
- Elective credits in music Credits: 6
 - Free electives Credits: 9

Total Credits: 120-123

Music Therapy (B.S.M.T.)

Program: B.S.M.T.

Department of Music

School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714 ~ www.ipfw.edu/vpa

Music therapists use music and music activities to promote health and rehabilitation for individuals of all ages with disabilities in a variety of agencies such as hospitals, schools, rehabilitation centers, and private practice settings. Students must satisfactorily complete a six-month internship at the conclusion of the required course work. Graduates of the B.S.M.T. program are eligible to sit for the national certification exam sponsored by the Certification Board for Music Therapists. Music therapy majors must work closely with an advisor to select general education courses that meet national certification requirements. Bachelor of Science in Music Therapy (B.S.M.T.) candidates have some specific general education courses in some categories.

Gerontology

For information about earning an undergraduate certificate in gerontology concurrently with the B.S.M.T., consult the gerontology program entry in this section of this Bulletin. Additional information is published in the *Department of Music Student Handbook*.

IPFW General Education Requirements (33 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

See Part 2 General Education Requirements for approved courses

Reading/Writing Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.

Quantitative Reasoning Credits: 3

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

- BIOL 203 - Human Anatomy and Physiology Cr. 4.

Area III—The Individual, Culture, and Society Credits: 6

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.
- SOC S163 - Social Problems Cr. 3.

Area IV—Humanistic Thought Credits: 6

Music majors may not use MUS Z101 to fulfill Area IV requirements

See Part 2 General Education Requirements for approved courses

- MUS Z105 - Traditions in World Music Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

Music majors may not use MUS Z140 to fulfill Area V requirements

- MUS L153 - Introduction to Music Therapy Cr. 3.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Music Core Credits: 33

- MUS G370 - Techniques for Conducting Cr. 2.
- MUS M201 - Music Literature I Cr. 2.
- MUS M202 - Music Literature II Cr. 2.
- MUS M403 - History of Music I Cr. 3.
- MUS M404 - History of Music II Cr. 3.
- MUS T113 - Music Theory I Cr. 3.
- MUS T114 - Music Theory II Cr. 3.
- MUS T115 - Sightseeing and Aural Perception I Cr. 1.
- MUS T116 - Sightseeing and Aural Perception II Cr. 1.

- MUS T213 - Music Theory III Cr. 3.
- MUS T214 - Music Theory IV Cr. 3.
- MUS T215 - Sightsinging and Aural Perception III Cr. 1.
- MUS T216 - Sightsinging and Aural Perception IV Cr. 1.
- MUS T315 - Analysis of Musical Form Cr. 3.
- MUS U109 - Computer Skills for Musicians Cr. 2.

Performance Studies Credits: 26

- MUS X095 - Performance Class Cr. 0.
(5 semesters)
- MUS X299 - Piano Proficiency Examination Cr. 0.

Applied Primary (includes recital) Credits: 12

- MUS X269 - Upper Divisional Exam Credits: 0

Applied Secondary Credits: 4-7

Non-keyboard concentrates take:

- MUS P111 - Class Piano I Cr. 1-2.
- MUS P121 - Class Piano II Cr. 1-2.
- MUS P131 - Class Piano III Cr. 1-2.
- MUS P141 - Class Piano IV Cr. 1-2.

Keyboard concentrates take:

- and 200-level applied study (**6 credits**)
- MUS P211 - Keyboard Techniques Cr. 1-2.

Ensembles Credits: 6

Professional Music Therapy Courses Credits: 28

- MUS E253 - Functional Music Skills Cr. 2.
- MUS L253 - Music Therapy Observation Practicum Cr. 1.
- MUS L254 - Music Therapy Practicum I Cr. 1.
- MUS L340 - Music Therapy in Healthcare Settings Cr. 3.
- MUS L353 - Music Therapy Practicum II Cr. 1.
- MUS L354 - Music Therapy Practicum III Cr. 1.
- MUS L410 - Administrative and Professional Issues in Music Therapy Cr. 3.

- MUS L418 - Psychology of Music Cr. 3.
- MUS L419 - Introduction to Music Therapy Research Methods Cr. 3.
- MUS L420 - Clinical Processes in Music Therapy Cr. 3.
- MUS L421 - Music Therapy Practicum IV Cr. 1.
- MUS L422 - Music Therapy Theories and Techniques Cr. 3.
- MUS L424 - Music Therapy Internship Cr. 1-2.
- MUS U355 - Music and Exceptionality Cr. 4.
- MUS X298 - Music Therapy Upper Divisional Skills Examination Cr. 0.

Additional Requirements Credits: 7

- MUS K312 - Arranging for Instrumental and Vocal Groups Cr. 2.
- MUS L100 - Guitar Cr. 1.
- MUS V201 - Voice Class Cr. 1.
- PSY 350 - Abnormal Psychology Cr. 3.

General Electives Credits: 6

The following courses are recommended as general electives:

- HSRV 210 or HSRV 211
- AUS 115 - Introduction to Communicative Disorders Cr. 3.
- FOLK F101 - Introduction to Folklore Cr. 3.
- or
- FOLK F111 - Introduction to World Folk Music Cr. 3.
- GERN G231 - Introduction to Gerontology Cr. 3.
- HSRV 211 - The Dynamics of Group Behavior Cr. 3.
- MUS E353 - Orff and Percussion Techniques for Music Therapy Cr. 1-6.
- MUS U410 - Creative Arts, Health, and Wellness Cr. 3.
- PHIL 312 - Medical Ethics Cr. 3.
- PSY 235 - Child Psychology Cr. 3.
- or
- PSY 367 - Adult Development and Aging Cr. 3.
- or
- SOC S331 - Sociology of Aging Cr. 3.

Total Credits: 129–132

Note

Music therapy majors must have at least seven courses in the behavioral/health/natural sciences. General electives may include courses required for the gerontology certificate program, a minor in psychology, or other program minor. See *Department of Music Handbook* for more options and further information.

Nursing (B.S.)

Program: B.S. Department of Nursing School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/nursing

Program Requirements

B.S. Core Credits: 70

- NUR (elective) Credits: 3
- NUR 103 - Professional Seminar I Cr. 2.
- NUR 115 - Nursing I: Introduction to Nursing Cr. 5.
- NUR 130 - Essential Clinical Skills Cr. 2.
- NUR 202 - Nursing II: Medical-Surgical Nursing of Adults Cr. 6.
- NUR 240 - Psychiatric Mental Health Nursing Cr. 4*.
- NUR 334 - Clinical Pathophysiology Cr. 4.
- NUR 336 - Nursing IIIB: Medical-Surgical Nursing of Adults Cr. 7.
- NUR 337 - Statistics and Data Management in Health Sciences Cr. 3.
- NUR 339 - Research in Healthcare Cr. 3.
- NUR 344 - Introduction to Healthcare Informatics Cr. 2.
- NUR 346 - Advanced Health Assessment Cr. 2.
- NUR 377 - Professional Seminar II Cr. 3.
- NUR 379 - Caring for Children and Families Cr. 3.
- NUR 418 - Community/Public Health Nursing Cr. 5.
- NUR 419 - Advanced Acute Care Nursing Cr. 5.
- NUR 423 - Professional Seminar III Cr. 2.
- NUR 433 - Advanced Concepts in Critical Thinking Cr. 1.
- NUR 442 - Leadership in Nursing Cr. 5.

Supporting Courses Credits: 52

- Credits in communication at the 300-400 level Credits: 3
- Credits in humanities (General Education IV) Credits: 6
- Credits in elective (General Education V) Credits: 3
- Credits in elective Credits: 3
- BIOL 203 - Human Anatomy and Physiology Cr. 4.
and
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- CHM 104 - Living Chemistry Cr. 3.

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- FNN 303 - Essentials of Nutrition Cr. 3.
- PCTX 201 - Introductory Pharmacology Cr. 3-4.
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Total Credits: 122

Organizational Leadership and Supervision (B.S.)

Program: B.S.

Division of Organizational Leadership and Supervision

Neff Hall 288 ~ 260-481-6420 ~ www.ipfw.edu/ols

The bachelor's program focuses on leadership roles, the human relations concerns of supervisors and human resource issues. Courses emphasize current and future workplace topics, such as teamwork and work groups, facilitation skills, employee training and development, individual creativity and innovation, workforce diversity, employee health and safety, and overseeing change.

To earn the B.S. with a major in organizational leadership and supervision, you must satisfy the requirements of IPFW (see Part 7) and the Division of Organizational Leadership and Supervision (see Part 3); earn a grade of C or better in ENG W131, ENG W233 (or approved substitute), and each OLS course; and complete the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

OLS Core and Major Courses

- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 268 - Elements of Law Cr. 3.
- OLS 274 - Applied Leadership Cr. 3.
- OLS 375 - Training Methods Cr. 3.
- OLS 376 - Human Resources Issues Cr. 3.
- OLS 454 - Gender and Diversity in Management Cr. 3.
- OLS 474 - Conference Leadership Cr. 3.
- OLS 475 - Topics: Contemporary Supervisory Training Issues Cr. 3.
- OLS 485 - Leadership for Team Development Cr. 3.
- OLS 486 - Leadership: Management of Change Cr. 3.

OLS Electives Credits: 9

Technical Support Requirements

- OLS 106 - Computer Applications for Supervision Credits: 3
- BUS A201 - Principles of Financial Accounting Cr. 3.
- CS 106 - Introduction to Computers Cr. 3.
- ECON E200 - Fundamentals of Economics Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Choose from the following:

- COM 303 - Intercultural Communication Cr. 3.

- COM 323 - Business and Professional Speaking Cr. 3.
- COM 324 - Introduction to Organizational Communication Cr. 3.

Choose from the following: Credits: 3

- BUS A202 - Principles of Managerial Accounting Cr. 3.
- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- SPEA K300 - Statistical Techniques Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Concentration Credits: 21

In consultation with IPFW academic departments, OLS has compiled interdisciplinary career concentrations such as:

Human Resource Development
Human Resource Management
Environmental Health and Safety
Electrical Engineering Technology
Government
Health Services
Hotel, Restaurant, Tourism Management
Industrial Engineering Technology
Interior Design
Information Systems
Journalism
Public Relations
Quality Control
Service Industry

A minor may be substituted for the concentration. See the OLS academic advisor for additional information.

Unrestricted Electives Credits: 9

Total Credits: 123

Note

Lists of specific courses required for each career concentration are available at the OLS office (Neff 288). Other options for filling this requirement include using an IPFW-recognized minor as a basis for your concentration area or designing a concentration that reflects your own career goals. Your proposal for an alternative concentration and a formal plan of study must be accepted by an OLS faculty advisor and approved by the OLS chair. If your plan is approved, it will become a formal part of your degree requirements.

Special Academic Regulations for Organizational Leadership and Supervision Degree Programs

Transfer students and students planning to change their major to organizational leadership and supervision must have a GPA of 2.00 or higher to be admitted into the program. A cumulative GPA of 2.0 or above is also required to remain in the division.

OLS, business, and technical courses taken more than 10 years ago will not count towards your degree requirements.

Students receiving credit for cooperative education experience can use these credits as unrestricted electives only.

If you have not registered for degree-applicable courses as an IPFW OLS major for four consecutive semesters (excluding summer), you must satisfy the degree requirements specified in the IPFW Bulletin that includes your year of re-entry.

Philosophy (B.A.)

Program: B.A.

Department of Philosophy

School of Arts and Sciences

Neff Hall 130 ~ 260-481-6366

The major in philosophy is a traditional humanities and liberal-arts program covering the principal branches and divisions of philosophy with an emphasis on the history of philosophy. The philosophy major is good preparation for graduate study in philosophy. Some students who major in philosophy do so with the intention of becoming teachers of philosophy. The philosophy major also serves as a preprofessional program for the ministry, law, or health sciences. It is often possible for a student to be a double major in philosophy and something else.

To earn the Bachelor of Arts with a major in philosophy, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and complete the following courses:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.

- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought

See Part 2 General Education Requirements for approved courses

- Additional credits in Area IV Credits: 3
- PHIL 110 - Introduction to Philosophy Cr. 3.
(credits included in Major Courses, below)

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in PHIL) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in PHIL)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D
- PHIL 110 - Introduction to Philosophy Cr. 3.
(credits included in Major Courses, below)

Core and Concentration (Major) Courses

- PHIL 110 - Introduction to Philosophy Cr. 3.
- PHIL 111 - Ethics Cr. 3.
- PHIL 150 - Principles of Logic Cr. 3.
- PHIL 303 - History of Modern Philosophy Cr. 3.
- PHIL 450 - Symbolic Logic Cr. 3.

Credits in two of the following: Credits: 6

- PHIL 301 - History of Ancient Philosophy Cr. 3.
- PHIL 302 - History of Medieval Philosophy Cr. 3.
- PHIL 304 - 19th Century Philosophy Cr. 3.

Additional credits in PHIL courses, including one at the 500 level Credits: 9

General Elective Courses

Sufficient additional credits to bring the total to 124.

Total Credits: 124

Physics (B.S.)

Program: B.S.

Department of Physics

School of Arts and Sciences

Kettler Hall 126B ~ 260-481-6306 ~ www.ipfw.edu/physics/

This program helps you prepare for graduate study in physics or for careers in industry. You may also be interested in physical science teaching certification (listed separately in this Bulletin).

If you wish to transfer to physics from another degree program, you must have an average of C or better in all physics and mathematics courses you have completed and not more than one grade below C in those courses.

To remain in the degree program, you must maintain a GPA of 2.00 or higher in physics courses. You may take a minor of 24–30 credits in a second science or in engineering. For this minor, a plan of study is developed with your advisor. You may substitute courses in the minor for PHYS 361. Typical minor programs chosen by physics majors are mathematics and electrical engineering.

To earn the B.S. with a major in physics, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), in addition to the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
(credits included in Supporting Courses, below)

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- CHM 115 - General Chemistry Cr. 4.
(credits included in Supporting Courses, below)
- PHYS 152 - Mechanics Cr. 5.
(credits included in Major Courses, below)

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in PHYS) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 8

Core and Concentration (Major) Courses

- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 330 - Intermediate Electricity and Magnetism Cr. 3.
- PHYS 331 - Electricity and Magnetism II Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.
- PHYS 345 - Optics Laboratory I Cr. 1.
- PHYS 346 - Advanced Laboratory I Cr. 1.
- PHYS 361 - Electronics for Scientists Cr. 4.
- PHYS 515 - Thermal and Statistical Physics Cr. 3.
- PHYS 520 - Mathematical Physics Cr. 3.
- PHYS 550 - Introduction to Quantum Mechanics Cr. 3.

One of the following: Credits: 3

- Additional credits in mathematics
- PHYS 325 - Scientific Computing Cr. 3.

Supporting Courses

- CHM 115 - General Chemistry Cr. 4.

- CHM 116 - General Chemistry Cr. 4.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Physics Teaching (B.S.)

Program: Physics Teaching B.S.

Department of Physics

School of Arts and Sciences

Kettler Hall 126B ~ 260-481-6306 ~ www.ipfw.edu/physics/

This program helps you prepare for teaching physical science in the high schools. You may also be interested in physical science teaching certification (listed separately in this Bulletin).

You should work closely with your academic advisor to ensure completion of general-education requirements for teacher certification. To be certified to teach, you must have a GPA of 2.00 or higher in the general-education areas of humanities and social and behavioral sciences. Additionally, you must have a GPA of 2.50 or higher in your major and the professional-education course area. Each professional-education course must be completed with a grade of C or better.

The School of Education requires that you first complete EDUA F300, EDUC W200/M101, and EDUC K201 before you are permitted to take professional education courses. Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam in physics must be completed before or during the student-teaching semester, normally in your senior year.

If you wish to transfer to physics teaching from another degree program, you must have an average of C or better in all physics and mathematics courses you have completed, and not more than one grade below C in those courses.

To earn the B.S. with a major in physics teaching, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) in addition to the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
Credits: 0
(credits included in Supporting Courses, below)

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Area II—Natural and Physical Sciences

- CHM 115 - General Chemistry Cr. 4.
Credits: 0
(credits included in Supporting Courses, below)
- PHYS 152 - Mechanics Cr. 5.
Credits: 0
(credits included in Major Courses, below)

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in PHYS) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Core and Concentration (Major) Courses

- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 330 - Intermediate Electricity and Magnetism Cr. 3.
- PHYS 331 - Electricity and Magnetism II Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.
- PHYS 345 - Optics Laboratory I Cr. 1.
- PHYS 346 - Advanced Laboratory I Cr. 1.
- PHYS 515 - Thermal and Statistical Physics Cr. 3.
- PHYS 520 - Mathematical Physics Cr. 3.
- PHYS 550 - Introduction to Quantum Mechanics Cr. 3.

Supporting Courses

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.

Teacher Education Program Requirements

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC W200 - Using Computers for Education Cr. 1.
Credits: 1

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.

Credits: 3

- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC M449 - Methods of Teaching Science in the Secondary Schools Cr. 3.
- EDUC M470 - Practicum Cr. 3-8.
Credits: 4
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
Credits: 12
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.
Credits: 3
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

Total Credits: 125

Political Science (B.A.)

Program: B.A.

Department of Political Science

School of Arts and Sciences

Classroom-Medical Building 209 t 260-481-6686 ~ www.ipfw.edu/pols

To earn the B.A. with a major in political science, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and complete the following courses:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.

- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- Additional credits in Area III Credits: 3

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in POLS) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- POLS Y205 - Elements of Political Analysis Cr. 3.

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in POLS)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- **POLS Yxxx** - additional POLS credits, 100 level or above Credits: 6
- **POLS Yxxx** - additional POLS credits, 200 level or above Credits: 15
- POLS Y205 - Elements of Political Analysis Cr. 3.
- POLS Y395 - Quantitative Political Analysis Cr. 3.
- POLS Y490 - Senior Seminar in Political Science Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Teacher Certification

You may be certified as a teacher of social studies after fulfilling all requirements for the B.A. with a major in political science and all requirements for teacher certification. Full information on teacher certification requirements is available from the School of Education.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUC K201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

Notes

Neither Y398 (Internship in Urban Institutions) nor Y482 (Practicum) may count for more than 6 credits for the major; these two courses together may not count for more than 9 credits for the major.

Psychology (B.A.)

Program: B.A.

Department of Psychology

School of Arts and Sciences

Neff Hall 388 ~ 260-481-6403 ~ www.ipfw.edu/psyc

The Bachelor of Arts with a major in psychology is for the person seeking a career in psychology or a closely related field. The degree program provides a liberal-arts education in psychology as well as preparation for graduate school. A current IPFW student must have a cumulative GPA of 2.0 to declare psychology as a major. After two consecutive semesters in which a psychology major's cumulative GPA falls below 2.0, the student will no longer be eligible to be a psychology major. Two subsequent consecutive semesters with the cumulative GPA at or above 2.0 will permit a student to petition for reinstatement as a psychology major.

To earn the B.A. with a major in psychology, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), in addition to fulfilling the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- Additional credits in Area III Credits: 3
- PSY 120 - Elementary Psychology Cr. 3.
(credits included in Major Courses, below)

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in PSY) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Cultural Studies

- Requirements in Arts and Sciences Part D Credits:

Core and Concentration (Major) Courses

- PSY 100 - Introduction to the Science and Fields of Psychology Cr. 1.
- PSY 120 - Elementary Psychology Cr. 3.
- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- PSY 203 - Introduction to Research Methods in Psychology Cr. 3.
- PSY 314 - Introduction to Learning Cr. 3.
- PSY 329 - Psychobiology II: Principles of Psychobiological Psychology Cr. 3.
- PSY 416 - Cognitive Psychology Cr. 3.

Three of the following: Credits: 9

- PSY 235 - Child Psychology Cr. 3.
Credit not given for both PSY 235 and PSY 369
- PSY 240 - Introduction to Social Psychology Cr. 3.
- PSY 350 - Abnormal Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.
Credit not given for both PSY 235 and PSY 369
- PSY 420 - Introduction to Personality Theory Cr. 3.

One of the following: Credits: 3

- PSY 444 - Human Sexual Behavior Cr. 3.
- PSY 480 - Field Experience in Psychology Cr. 3.
- PSY 490 - Practicum in Psychotherapy Cr. 3.
- PSY 499 - Honors Thesis in Psychology Cr. 3.
- PSY 540 - History of Psychology Cr. 3.
- PSY 550 - Introduction to Clinical Psychology Cr. 3.

Additional credits in psychology at the 200 level or above
Credits: 9

Successful completion of the Major Field Test in Psychology

General Elective Courses

Sufficient additional credits to bring the total to 124.

Total Credits: 124

Public Affairs (B.S.P.A.)

Program: Bachelor of Science in Public Affairs

Neff Hall 260 ~ 260-481-6351 ~ www.ipfw.edu/spea/

The B.S.P.A. program provides a background in the liberal arts and a focus on public affairs. This degree offers majors in the criminal justice, environmental policy, health services administration, legal studies, and public management. In addition, a specialized study major may be developed with the approval of a faculty advisor and the program director to meet special career needs. Internships are available and strongly encouraged so that qualified students have the opportunity to apply classroom theory and techniques to real-life experiences. The internship program is designed for maximum flexibility; internships can be full or part time, paid or unpaid, credit or noncredit.

The SPEA curriculum is divided into four categories — general education, public affairs core, a major area, and general electives. The B.S.P.A. requires a minimum of 120 credit hours with a 2.00 or higher cumulative grade-point average and a 2.30 or higher average in core and major courses. No more than 88 credits may be transferred from other accredited institutions, and no more than 10 credits can be taken by correspondence through the IU School of Continuing Studies. A maximum of 10 credits may be awarded for military experience, and a maximum of 12 credits may be awarded for police academy training. Courses taken to meet specific SPEA degree requirements cannot be used to satisfy any other SPEA degree requirement, but may be double-counted to satisfy the IPFW general-education distribution requirement.

To earn the Bachelor of Science in Public Affairs at IPFW, you must fulfill the requirements of IPFW (see Part 7) and the Division of Public and Environmental Affairs, and complete the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

Reading/Writing Credits: 3

One of the following:

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

Listening/Speaking Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.

Quantitative Reasoning Credits: 3

See Part 2 General Education Requirements for approved courses.

Note on double counting

Some courses may be used to fulfill both Quantitative Reasoning and the SPEA Quantitative Methods requirements.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses.

Note on double counting

Some courses may be used to fulfill both Area II and the SPEA Natural Sciences requirements.

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses.

Note on double counting

Some courses may be used to fulfill both Area III and SPEA Arts and Humanities or SPEA Social and Behavioral Sciences requirements.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses.

Note on double counting

Some courses may be used to fulfill both Area IV and the SPEA Arts and Humanities requirement.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Note on double counting

Some courses may be used to fulfill both Area V and the SPEA Arts and Humanities requirement.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Note on double counting

Some courses may be used to fulfill both Area VI and the SPEA Social and Behavioral Sciences or Humanistic Thought requirements.

Division of Public and Environmental Affairs

General Distribution Requirements

Communication (3 credits)

One of the following courses: Credits: 3

- ENG W232 - Introduction to Business Writing Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Quantitative Methods (9 credits)

Three credits from the following: Credits: 3

- BUS K200 - Computer Literacy Concepts for Business Cr. 0.
- BUS K211 - Spreadsheets for Business Cr. 1.
- BUS K212 - Introduction to Database Management Cr. 1.
- BUS K213 - Internet Literacy for Business Cr. 1.
- CS 106 - Introduction to Computers Cr. 3.

One of the following courses: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- MA 213 - Finite Mathematics I Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

One of the following courses: Credits: 3

- ECON E270 - Introduction to Statistical Theory in Economics and Business I Cr. 3.
- SOC S351 - Social Statistics Cr. 3.
- SPEA K300 - Statistical Techniques Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Arts and Humanities (12 credits)

- Arts and humanities electives Credits: 6

Choose two courses from at least two of the following subject areas not used to fulfill another requirement:

classical studies, communication, English literature, fine arts, folklore, international languages, history, honors (humanities only), music, philosophy, religious studies, theatre.

- HIST H105 - American History I Cr. 3.
- HIST H106 - American History II Cr. 3.

Natural Science (8 credits)

Select from the following courses:

- AST A105
- ASTA 110
- GEOL G111
- GEOL G112
- AST A100 - The Solar System Cr. 3.
- BIOL 100 - Introduction to the Biological World Cr. 3.
- BIOL 100L - Introduction to the Biological World Laboratory Cr. 1.
- BIOL 108 - Biology of Plants Cr. 4.
- BIOL 109 - Biology of Animals Cr. 4.
- BIOL 203 - Human Anatomy and Physiology Cr. 4.
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- CHM 111 - General Chemistry Cr. 3.
- CHM 112 - General Chemistry Cr. 3.
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- GEOG G107 - Physical Systems of the Environment Cr. 3.
- GEOL G100 - General Geology Cr. 3-5.
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G108 - Selected Earth Science Topics Cr. 1-3.
- GEOL L100 - General Geology Laboratory Cr. 1-2.

- GEOL S100 - General Geology (Honors) Cr. 5.
- PHYS 131 - Concepts in Physics I Cr. 3.
- PHYS 132 - Concepts in Physics II Cr. 3.
- PHYS 201 - General Physics I Cr. 5.
- PHYS 218 - General Physics Cr. 4.

Social and Behavioral Sciences (15 credits)

- Two courses from the following areas: Credits: 6
anthropology, criminal justice, economics, geography (selected), journalism, linguistics, political science, psychology (selected), sociology, women's studies
- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.
- SPEA V371 - Financing Public Affairs Cr. 3.

Public Affairs Core

(must earn a C or better in each of these courses)

- SPEA E162 - Environment and People Cr. 3.
- SPEA H120 - Contemporary Health Issues Cr. 1-3.
- SPEA J101 - The American Criminal Justice System Cr. 3.
- SPEA V170 - Introduction to Public Affairs Cr. 3.

Major

(Choose one major, 27–30 cr.)

Criminal Justice (30 credits)

(Charles “Bud” Meeks Criminal Justice Program)

- SPEA J201 - Theoretical Foundations of Criminal Justice Policies Cr. 3.
- SPEA J202 - Criminal Justice Data, Methods, and Resources Cr. 3.
- SPEA J301 - Substantive Criminal Law Cr. 3.
- SPEA J306 - The Criminal Courts Cr. 3.
- SPEA J321 - American Policing Cr. 3.
- SPEA J331 - Corrections Cr. 3.
- SPEA J439 - Crime and Public Policy Cr. 3.

Additional approved SPEA courses Credits: 9

maximum 6 credits in the following:

- SPEA J380 - Internship in Criminal Justice Cr. 3.
- SPEA V380 - Internship in Public Affairs Cr. 1-6.

Environmental Policy (27 credits)

- SPEA E400 - Topics in Environmental Studies Cr. 3.
- SPEA H316 - Environmental Science and Health Cr. 3.
- SPEA H416 - Environmental Health Policy Cr. 3.
- SPEA V376 - Law and Public Policy Cr. 3.

Choose one of the following:

- BIOL 349 - Environmental Science Cr. 3.
- SPEA E272 - Introduction to Environmental Sciences Cr. 3.

12 credits from among the following:

- **AGRY 225** Soil Science Credits: 3
- **ENTM 306** General Applied Entomology Credits: 2
- **FNR 225** Dendrology and Wildland Plants Credits: 3
- **SOC S407** Society of the Future Credits: 3
- ANTH E320 - Indians of North America Cr. 3.
- ANTH E401 - Ecology and Culture Cr. 3.
- BIOL 217 - Intermediate Ecology Cr. 3.
- COM 316 - Controversy in American Society Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.
- LSTU L240 - Occupational Health and Safety Cr. 3.
- PHIL 328 - Ethics and Animals Cr. 3.
- POLS Y367 - International Law Cr. 3.
- SOC S309 - The Community Cr. 3.
- SPEA V365 - Urban Development and Planning Cr. 3.
- SPEA V372 - Government Finance and Budgets Cr. 3.
- SPEA V380 - Internship in Public Affairs Cr. 1-6.
- SPEA V390 - Readings in Public Affairs Cr. 1-3.
- SPEA V450 - Contemporary Issues in Public Affairs Cr. 1-3.
(approved topics)
- SPEA V465 - Geographic Information Systems for Public and Environmental Affairs Cr. 3.
- SPEA V490 - Directed Research in Public and Environmental Affairs Cr. 1-3.

Health Services Administration (27 credits)

- SPEA H320 - Health Systems Administration Cr. 3.
- SPEA H322 - Principles of Epidemiology Cr. 3.
- SPEA H352 - Health Finance and Budgeting Cr. 3.
- SPEA H402 - Hospital Administration Cr. 3.
- SPEA H411 - Long-Term Care Administration Cr. 3.

One of the following: Credits: 3

- SPEA H371 - Human Resource Management in Healthcare Facilities Cr. 3.
- SPEA V366 - Managing Behavior in Public Organizations Cr. 3.
- SPEA V373 - Human Resources Management in the Public Sector Cr. 3.

Additional approved SPEA courses Credits: 9

maximum 6 credits in the following:

- SPEA J380 - Internship in Criminal Justice Cr. 3.
- SPEA V380 - Internship in Public Affairs Cr. 1-6.

Legal Studies (30 credits)

- POLS Y304 - American Constitutional Law I Cr. 3.
- POLS Y305 - American Constitutional Law II Cr. 3.
- SPEA V376 - Law and Public Policy Cr. 3.
- SPEA V377 - Legal Process and Contemporary Issues in America Cr. 3.
- SPEA V405 - Public Law and the Legislative Process Cr. 3.

Two of the following: Credits: 6

- SPEA H441 - Legal Aspects of Healthcare Administration Cr. 3.
- SPEA J301 - Substantive Criminal Law Cr. 3.
- SPEA J302 - Procedural Criminal Law Cr. 3.
- SPEA J304 - Correctional Law Cr. 3.
- SPEA V260 - Topics in Public Affairs Cr. 1-3.
- SPEA V406 - Public Law and the Electoral Process Cr. 3.
- SPEA V407 - Public Law and Government Relations Cr. 3.
- SPEA V456 - Topics in Public Law Cr. 3.

Two of the following: Credits: 6

- BUS L303 - Commercial Law II Cr. 3.
- ENG W331 - Business and Administrative Writing Cr. 3.
- HIST A349 - Afro-American History Cr. 3.
- HIST H260 - History of Women in the United States Cr. 3.
- JOUR J300 - Communications Law Cr. 3.
- OLS 468 - Personnel Law Cr. 3.
- PHIL 260 - Philosophy and Law Cr. 3.
- POLS Y328 - Women and the Law Cr. 3.
- POLS Y367 - International Law Cr. 3.
- PSY 381 - Psychology and Law Cr. 3.

Public Management (27 credits)

- SPEA V263 - Public Management Cr. 3.
- SPEA V264 - Urban Structure and Policy Cr. 3.
- SPEA V348 - Management Science Cr. 3.
- SPEA V366 - Managing Behavior in Public Organizations Cr. 3.
- SPEA V372 - Government Finance and Budgets Cr. 3.
- SPEA V376 - Law and Public Policy Cr. 3.

Three additional approved SPEA courses Credits: 9

maximum 6 credits in the following:

- SPEA J380 - Internship in Criminal Justice Cr. 3.
- SPEA V380 - Internship in Public Affairs Cr. 1-6.

Specialized Study Major (27 credits)

Four approved SPEA courses at the 300–400 level Credits: 12

maximum 6 credits in the following:

- SPEA J380 - Internship in Criminal Justice Cr. 3.
- SPEA V380 - Internship in Public Affairs Cr. 1-6.

Five additional approved 300–400 level courses Credits: 15

General Electives (25–28 credits)

Select additional courses to equal 120 credits.

Total Credits: 120

RN–B.S.

Program: RN B.S.

Department of Nursing

School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/nursing

Admission into the RN–B.S. nursing program requires that the applicant be a graduate of a state-accredited associate degree or diploma program in nursing and have a minimum cumulative GPA of 2.3 on a 4.0 scale. A current Indiana nursing license is required prior to taking the first clinical nursing course.

Credit required from the lower division includes:

30	credits nursing
12	credits in biological and physical sciences <i>must include 3 credits of chemistry</i>
6	<i>credits in social sciences</i>
3	credits in written communication skills
9	credits in electives

Program Requirements

Credits from the A.S. in nursing Credits: 60

Nursing Core Credits: 37

- **NUR (elective) Credits: 3**
- NUR 334 - Clinical Pathophysiology Cr. 4.
- NUR 337 - Statistics and Data Management in Health Sciences Cr. 3.
- NUR 339 - Research in Healthcare Cr. 3.
- NUR 344 - Introduction to Healthcare Informatics Cr. 2.
- NUR 346 - Advanced Health Assessment Cr. 2.
- NUR 377 - Professional Seminar II Cr. 3.
- NUR 418 - Community/Public Health Nursing Cr. 5.
Credits: 5
- NUR 419 - Advanced Acute Care Nursing Cr. 5.
Credits: 5
- NUR 423 - Professional Seminar III Cr. 2.
- NUR 442 - Leadership in Nursing Cr. 5.
Credits: 5

Supporting Courses Credits: 21

- Credits in communication at the 300-400 level Credits: 3
- Credits in humanities (General Education IV) Credits: 6
- Credits in elective (General Education V) Credits: 3
- Credits in elective Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Total Credits: 58

Secondary Education-Adolescence/Young Adulthood Concentration (B.S.Ed.)

Program: B.S.Ed. Department of Educational Studies School of Education

Neff Hall 250 ~ 260-481-6441

The B.S.Ed. in secondary education is intended to prepare students for successful careers as teachers of children in middle school/junior high and high school settings. The secondary education degree is divided into two concentrations: early adolescence, for middle school/junior high settings, and adolescence/young adulthood, for high school settings. Pre-service teachers must choose one or both concentrations to complete the degree. Upon satisfactory completion of the program, and the other requirements listed under Teacher Licensure in the Special Academic Regulations, you are eligible to apply for an Indiana teaching license.

To earn the B.S.Ed. in secondary education, you must satisfy the requirements of IPFW (see part 7) and the School of Education.

School Setting: High School

General Education Credits: 45

School of Education Credits: 34

Content Area Majors, variable credits depending on the program

Elective credits variable, but must be at least 124.

IPFW General Education Requirements Credits: 45

Area I—Linguistic and Numerical Foundations Credits: 12

- COM 114 - Fundamentals of Speech Communication Cr. 3.
(grade of B or better required)
- ENG W131 - Elementary Composition I Cr. 3.
(grade of B or better required)
- ENG W233 - Intermediate Expository Writing Cr. 3.

Any college-level math including: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 9

See Part 2 General Education Requirements for approved courses

- Biology Credits: 3

Two of the following: Credits: 6

- ANTH B200 - Bioanthropology Cr. 3.
astronomy, chemistry, geology, or physics

Area III—The Individual, Culture, and Society Credits: 9

See Part 2 General Education Requirements for approved courses

One of the following: Credits: 3

- American history or world history or humanities (FWAS H201 or H202)

One of the following: Credits: 3

- political science or sociology

One of the following: Credits: 3

- anthropology, business, economics, folklore, journalism, linguistics, psychology, or public and environmental affairs

Area IV—Humanistic Thought Credits: 9

See Part 2 General Education Requirements for approved courses

- English Literature Credits: 3

One of the following: Credits: 3

- INTR 220 - Architecture and Urban Form Cr. 3.
or fine arts or music

One of the following: Credits: 3

- film or philosophy or theatre

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI- Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Education Requirements

Initial Requirements:

- PPST (Pre-Professional Skills Test)
- EDUA F300 - Invitation to Teaching Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
(a grade of B or better is required)
Credits: 0
- EDUC W200 - Using Computers for Education Cr. 1.
(a grade of B or better is required)

Block 1: Teacher Education

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3

Block 2: Professional Education

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.
Credits: 3
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

One methods course from your content major: Credits: 3

- EDUC M443 - Methods of Teaching High School Social Studies Cr. 3.
- EDUC M445 - Methods of Teaching Foreign Languages Cr. 3.
- EDUC M447 - Methods of Teaching High School English Cr. 3.
- EDUC M448 - Methods of Teaching High School Mathematics Cr. 2-4.
Credits: 3
- EDUC M449 - Methods of Teaching Science in the Secondary Schools Cr. 3.

and

- EDUC M401 - Laboratory/Field Experience Cr.0-3.

Block 3: Teaching Major

In addition to the above courses, you must complete one content area major. See list of majors and courses below.

Student Teaching

- EDUC M501 *Portfolio* Cr. 0
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
Credits: 3

Optional:

- EDUC M470 - Practicum Cr. 3-8.

(for Middle School Endorsement area)
Credits: 4

Electives (Variable)

Total Credits: 124

Core Content Area Majors

Below is a list of teaching content area majors.

Earth and Space Science Teaching Major (39–40 credits)

- AST A100 - The Solar System Cr. 3.
- CHM 115 - General Chemistry Cr. 4.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G210 - Oceanography Cr. 3.
- GEOL G211 - Introduction to Paleobiology Cr. 3.
- GEOL G221 - Introductory Mineralogy Cr. 3-4.
Credits: 3
- GEOL G222 - Introduction to Petrology Cr. 3.
- GEOL G334 - Principles of Sedimentology and Stratigraphy Cr. 3.
- GEOL G420 - Regional Geology Field Trip Cr. 1-2.
Credits: 2

One of the following: Credits 3-4

- GEOG G107 - Physical Systems of the Environment Cr. 3.
w/GEOL L100
- GEOL G100 - General Geology Cr. 3-5.
w/GEOL L100
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL L100 - General Geology Laboratory Cr. 1-2.

Two of the following: Credits: 6

- GEOG G315 - Environmental Conservation Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.
- GEOL G415 - Geomorphology Cr. 3-4.

French Teaching Major (49 credits)

- FREN F3xx-4xx - Literature Electives (300–400 level) Credits: 6
- FREN F3xx-4xx - Electives (300–400 level) Credits: 12
- FREN F111 - Elementary French I Cr. 4.
- FREN F112 - Elementary French II Cr. 4.
- FREN F203 - Second-Year French I Cr. 3.
- FREN F204 - Second-Year French II Cr. 3.
- FREN F213 - Second-Year French Composition Cr. 2.
- FREN F317 - French Language Skills I Cr. 3.
- FREN F318 - French Language Skills II Cr. 3.
- FREN F325 - Oral French for Teachers Cr. 3-8.
Credits: 3
- FREN W300 - Methods of Research and Criticism Cr. 3.

One of the following: Credits: 3

- FREN F463 - Civilisation Francaise I Cr. 3.
- FREN F464 - Civilisation Francaise II Cr. 3.

German Teaching Major (44 credits)

- GER 3XX - Literature Elective (300 level) Credits: 3
- GER G3xx - Elective (300 level) Credits: 3
- GER G4xx - Electives (400 level) Credits: 12
- GER G111 - Elementary German I Cr. 4.
- GER G112 - Elementary German II Cr. 4.
- GER G203 - Second-Year German I Cr. 3.
- GER G204 - Second-Year German II Cr. 3.
- GER G318 - German Language Skills I Cr. 3-5.
Credits: 3
- GER G325 - German for Teachers Cr. 3.
- GER W300 - Methods of Research and Criticism Cr. 3.

One of the following: Credits: 3

- GER G362 - Deutsche Landeskunde Cr. 3.
- GER G363 - Deutsche Kulturgeschichte Cr. 3.

Language Arts (English) Teaching Major (39 credits)

- ENG L391 - Literature for Young Adults Cr. 3.
- ENG W103 - Introductory Creative Writing Cr. 3.
- ENG W400 - Issues in Teaching Writing Cr. 3.

One of the following in writing: Credits: 3

- ENG L202 - Literary Interpretation Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Two of the following in language study Credits: 6

- ANTH L200 - Language and Culture Cr. 3.
- ENG G205 - Introduction to the English Language Cr. 3.
- ENG G206 - Introduction to the Study of Grammar Cr. 3.
- ENG G301 - History of the English Language Cr. 3.
- ENG G405 - Studies in English Language Cr. 3.
- LING L103 - Introduction to the Study of Language Cr. 3.
- LING L303 - Introduction to Linguistic Analysis Cr. 3.
- LING L360 - Language in Society Cr. 3.

One of the following in pre-1700 British literature: Credits: 3

- ENG L220 - Introduction to Shakespeare Cr. 3.
- ENG L301 - Critical and Historical Survey of English Literature I Cr. 3.
- ENG L304 - Old English Language and Literature Cr. 3.
- ENG L305 - Chaucer Cr. 3.
- ENG L306 - Middle English Literature Cr. 3.
- ENG L308 - Elizabethan Drama and Its Background Cr. 3.
- ENG L309 - Elizabethan Poetry Cr. 3.
- ENG L315 - Major Plays of Shakespeare Cr. 3.
- ENG L317 - English Poetry of the Early 17th Century Cr. 3.
- ENG L318 - Milton Cr. 3.

One of the following in post-1700 British literature: Credits: 3

- ENG L302 - Critical and Historical Survey of English Literature II Cr. 3.
- ENG L322 - English Literature, 1660-1789 Cr. 3.
- ENG L332 - Romantic Literature Cr. 3.
- ENG L335 - Victorian Literature Cr. 3.
- ENG L345 - 20th Century British Poetry Cr. 3.
- ENG L346 - 20th Century British Fiction Cr. 3.
- ENG L347 - British Fiction to 1800 Cr. 3.
- ENG L348 - 19th Century British Fiction Cr. 3.
- ENG L369 - Studies in British and American Authors Cr. 3.

One of the following in contemporary American literature:
Credits: 3

- ENG L251 - American Literature Since 1865 Cr. 3.
- ENG L354 - American Literature Since 1914 Cr. 3.
- ENG L357 - 20th Century American Poetry Cr. 3.

- ENG L358 - 20th Century American Fiction Cr. 3.
- ENG L369 - Studies in British and American Authors Cr. 3.
- ENG L372 - Contemporary American Fiction Cr. 3.
- ENG L381 - Recent Writing Cr. 3.

One of the following in ethnic, minority, or non-Western:
Credits: 3

- ENG L107 - Oriental World Masterpieces Cr. 3.
- ENG L364 - Native American Literature Cr. 3.
- ENG L369 - Studies in British and American Authors Cr. 3.
- ENG L379 - American Ethnic and Minority Literature Cr. 3.
- ENG L381 - Recent Writing Cr. 3.

One of the following in Western literature, other than British or American: Credits: 3

- CLAS C205 - Classical Mythology Cr. 3.
- CLAS C405 - Comparative Mythology Cr. 3-4.
Credits: 3
- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L362 - Modern Drama Cr. 3.

One of the following in mass communications, film, or journalism: Credits: 3

- COM 210 - Debating Public Issues Cr. 3.
- COM 250 - Mass Communication and Society Cr. 3.
- FILM K101 - Introduction to Film Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.
- JOUR J110 - Foundations of Journalism and Mass Communication Cr. 3.

One elective in English, linguistics, or mass communications (other than COM 114) Credits: 3

Social Studies Teaching Major (51–60 credits)

Must complete all course work in 3 content areas plus one course from each of the other two content areas (diversified credit) to complete the major.

Economics (15 credits)

- Economics elective Credits: 3
- Economics elective (300–400 level) Credits: 3
- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.

One of the following: Credits: 3

- ECON E321 - Intermediate Microeconomic Theory Cr. 3.
- ECON E322 - Intermediate Macroeconomic Theory Cr. 3.

Government and Citizenship (15 credits)

- Political science electives (300–400 level) Credits: 6
- POLS Y103 - Introduction to American Politics Cr. 3.

Two of the following: Credits: 6

- POLS Y105 - Introduction to Political Theory Cr. 3.
- POLS Y107 - Introduction to Comparative Politics Cr. 3.
- POLS Y109 - Introduction to International Relations Cr. 3.

Historical Perspectives (24 credits)

American Civilization

- HIST elective (American) Credits: 3
- HIST elective (American) (300–400 level) Credits: 3
- HIST H105 - American History I Cr. 3.
- HIST H106 - American History II Cr. 3.

World Civilization

- HIST elective (non-American) Credits: 3
- HIST elective (non-American) (300–400 level) Credits: 3
- HIST H113 - History of Western Civilization I Cr. 3.
- HIST H114 - History of Western Civilization II Cr. 3.

Psychology (15 credits)

- PSY 120 - Elementary Psychology Cr. 3.

One of the following: Credits 3

- PSY 235 - Child Psychology Cr. 3.
- PSY 240 - Introduction to Social Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.

One of the following: Credits 3

- PSY 314 - Introduction to Learning Cr. 3.
- PSY 329 - Psychobiology II: Principles of Psychobiological Psychology Cr. 3.
- PSY 416 - Cognitive Psychology Cr. 3.

One PSY Elective Credits: 3

- PSY 350 - Abnormal Psychology Cr. 3.
- PSY 420 - Introduction to Personality Theory Cr. 3.

Sociology (15 credits)

- SOC S161 - Principles of Sociology Cr. 3.

One of the following: Credits 3

- SOC S230 - Society and the Individual Cr. 3.
- SOC S318 - Social Change Cr. 3.

Each of the following Credits: 9

- SOC elective Credits: 3
- SOC electives (300–400 level) Credits: 6

Diversified Credits: 6

Spanish Teaching Major (52 credits)

- SPAN S4XX Elective (400 level) Credits: 3
- SPAN S111 - Elementary Spanish I Cr. 4.
- SPAN S112 - Elementary Spanish II Cr. 4.
- SPAN S203 - Second-Year Spanish I Cr. 3.
- SPAN S204 - Second-Year Spanish II Cr. 3.
- SPAN S210 - Second-Year Spanish Composition Cr. 2-3.

Credits: 2

- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.
- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.
- SPAN S317 - Spanish Conversation and Diction Cr. 3.
- SPAN S488 - Spanish for Teachers Cr. 3.
- SPAN W300 - Methods of Research and Criticism Cr. 3.

One of the following: Credits: 3

- SPAN S407 - Survey of Spanish Literature I Cr. 3.
- SPAN S408 - Survey of Spanish Literature II Cr. 3.

One of the following: Credits: 3

- SPAN S425 - Spanish Phonetics Cr. 3.
- SPAN S426 - Introduction to Spanish Linguistics Cr. 3.
- SPAN S428 - Applied Spanish Linguistics Cr. 3.

One of the following: Credits: 3

- SPAN S471 - Spanish-American Literature I Cr. 3.
- SPAN S472 - Spanish-American Literature II Cr. 3.

One of the following: Credits: 3

- SPAN S411 - Spain: The Cultural Context Cr. 3.
- SPAN S412 - Latin-American Culture and Civilization Cr. 3.

Notes

Students completing the adolescence/young adulthood concentration may also add additional middle school/junior high teaching areas by completing any of the early adolescence content area minors and completing a middle school practicum.

Other IPFW departments offer degrees that lead to teacher certification. They include art education, biology, chemistry, mathematics, music education, and physics. Please refer to these departments in their appropriate Part 4 sections of this Bulletin for more information and course requirements.

Secondary Education-Early Adolescence Concentration (B.S.Ed.)

Program: B.S.Ed.
Department of Educational Studies
School of Education

Neff Hall 250 ~ 260-481-6441

The B.S.Ed. in secondary education is intended to prepare students for successful careers as teachers of children in middle school/junior high and high school settings. The secondary education degree is divided into two concentrations: early adolescence, for middle school/junior high settings, and adolescence/young adulthood, for high school settings. Pre-service teachers must choose one or both concentrations to complete the degree. Upon satisfactory completion of the program, and the other requirements listed under Teacher Licensure in the Special Academic Regulations, you are eligible to apply for an Indiana teaching license.

To earn the B.S.Ed. in secondary education, you must satisfy the requirements of IPFW (see part 7) and the School of Education.

School Setting: Middle School/Junior High

General Education Credits: 45

School of Education Credits: 34

Content Area Minors (must select 2) Credits: 48

Some content area minor credits will overlap with general education credits.

- Language Arts Credits: 24
- Mathematics Credits: 24
- Science Credits: 24
- Social Studies Credits: 24

Elective credits variable, but must be at least 124.

IPFW General Education Requirements Credits: 45

Area I—Linguistic and Numerical Foundations Credits: 12

- COM 114 - Fundamentals of Speech Communication Cr. 3.
(a grade of B or better is required)

- ENG W131 - Elementary Composition I Cr. 3.
(a grade of B or better is required)
- ENG W233 - Intermediate Expository Writing Cr. 3.

Any college-level math including: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 9

See Part 2 General Education Requirements for approved courses

- Biology Credits: 3
- Two of the following: Credits: 6
- ANTH B200 - Bioanthropology Cr. 3.
astronomy, chemistry, geology, or physics

Area III—The Individual, Culture, and Society Credits: 9

See Part 2 General Education Requirements for approved courses

One of the following: Credits: 3

- American history or world history or humanities (FWAS H201 or H202)

One of the following: Credits: 3

- political science or sociology

One of the following: Credits: 3

- anthropology, business, economics, folklore, journalism, linguistics, psychology, or public and environmental affairs

Area IV—Humanistic Thought Credits: 9

See Part 2 General Education Requirements for approved courses

- English literature Credits: 3

One of the following: Credits: 3

- INTR 220 - Architecture and Urban Form Cr. 3.

or fine arts or music

One of the following: Credits: 3

- film or philosophy or theatre

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

School of Education Requirements

Initial Requirements:

- PPST (Pre-Professional Skills Test)
- EDUA F300 - Invitation to teaching Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
(a grade of B or better is required)
Credits: 0
- EDUC W200 - Using Computers for Education Cr. 1.
(a grade of B or better is required)

Block 1: Teacher Education

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3

Block 2: Professional Education

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC M401 - Laboratory/Field Experience Cr.0-3.

Credits: 0

- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

Credits: 3

- EDUC S405 - The Middle and Junior High School Cr. 3.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.

Credits: 3

Block 3: Core Content Area Minors

In addition to the above courses, you must complete 24 credit hours in two of four core content area minors (See course requirements for core content area minors listed below)

Student Teaching

- EDUC M501 - Portfolio Credits: 0
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.

Credits: 12

Optional:

- EDUC M470 - Practicum Cr. 3-8.
(for an additional concentration area)

Credits: 4

Electives (Variable)

Total Credits: 124

Core Content Area Minors (24 credits)

In addition to the above courses, you must complete 24 credit hours in two of four core content area minors.

Language Arts (24 credits)

- British literature elective (300 level or higher) Credits: 3
- American literature elective (300 level or higher) Credits: 3

One of the following: Credits: 3

- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.

One of the following: Credits: 3

- ENG L202 - Literary Interpretation Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

One of the following: Credits: 3

- ENG G205 - Introduction to the English Language Cr. 3.
- ENG G206 - Introduction to the Study of Grammar Cr. 3.
- ENG L103 - Introduction to Drama Cr. 3.

One of the following: Credits: 3

- COM 250 - Mass Communication and Society Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.

One of the following: Credits: 3

- ENG L390 - Children's Literature Cr. 3.
- ENG L391 - Literature for Young Adults Cr. 3.

One of the following: Credits: 3

- EDUC E340 - Methods of Teaching Reading I Cr. 2-3.
Credits: 3
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

Mathematics (24 credits)

- Computer science elective Credits: 3
- Mathematics, computer science, or statistics electives Credits: 2–3
- MA 101 - Mathematics for Elementary Teachers I Cr. 3.
- MA 102 - Mathematics for Elementary Teachers II Cr. 3.
- MA 103 - Mathematics for Elementary Teachers III Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
(or waiver)
- STAT 125 - Communicating with Statistics Cr. 3.
(or higher)

One of the following: Credits: 3-4

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

Science (24 credits)

- Science electives Credits: 0-2
- AST A100 - The Solar System Cr. 3.
- BIOL 100 - Introduction to the Biological World Cr. 3.
and
- BIOL 100L - Introduction to the Biological World Laboratory Cr. 1.
- CHM 111 - General Chemistry Cr. 3.
- GEOL G100 - General Geology Cr. 3-5.

One of the following: Credits: 3

- BIOL 349 - Environmental Science Cr. 3.
- GEOG G315 - Environmental Conservation Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.

One of the following: Credits: 3-5

- PHYS 131 - Concepts in Physics I Cr. 3.
- PHYS 152 - Mechanics Cr. 5.

One of the following: Credits: 3

- EDUC Q200 - Introduction to Scientific Inquiry Cr. 1-3.
Credits: 3
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.

Social Studies (24 credits)

- American History Credits: 3
- Sociology Credits: 3
- Political Science Credits: 3
- Social Studies electives Credits: 6
- PSY 120 - Elementary Psychology Cr. 3.

One of the following: Credits: 3

- ECON E200 - Fundamentals of Economics Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.

One of the following: Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.
- HIST H232 - The World in the 20th Century Cr. 3.

Sociology (B.A.)

Program: B.A.

Department of Sociology and Anthropology

School of Arts and Sciences

Classroom-Medical Building 241 ~ 260-481-6842 ~ www.ipfw.edu/soca/soc.htm

Courses in sociology provide an understanding of society and of the relationship between the individual and society. Studies in sociology help to prepare you for graduate school and careers in the social services, law, human relations, criminal justice, government, education, and mass media. In order to effectively plan a course of study that will best meet your educational and career objectives, you will be assigned to an advisor as soon as you declare a major in sociology.

Although a minor is not required, study in an outside area is recommended. Anthropology, computer science, economics, history, labor studies, political science, psychology, organizational leadership and supervision, and women's studies support the major well.

To earn a B.A. with a major in sociology, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and satisfactorily complete the following courses.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.

- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

See Part 2 General Education Requirements for approved courses

- Additional credits in Area III Credits: 3
- SOC S161 - Principles of Sociology Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in SOC) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- SOC S260 - Analysis of Social Issues Cr. 3.
(credits included in Major Courses, below)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in SOC)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Requirements in Arts and Sciences Part D Credits: 6

Core and Concentration (Major) Courses

- SOC S161 - Principles of Sociology Cr. 3.
- SOC S260 - Analysis of Social Issues Cr. 3.
- SOC S340 - Social Theory Cr. 3.
- SOC S351 - Social Statistics Cr. 3.
- SOC S352 - Methods of Social Research Cr. 3.
- SOC S494 - Field Experience in Sociology Cr. 1-6.

Sociology Elective Courses Credits: 15

All additional sociology elective courses must be at the 200 level or above; 9 of the 15 credit hours must be at the 300 level or above.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Spanish (B.A.)

Program: B.A.

Department of International Language and Culture Studies

School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

To earn the B.A. with a major in Spanish, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) and satisfactorily complete the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

- LING L103 - Introduction to the Study of Language Cr. 3.

One of the following: Credits: 3

- HIST H232 - The World in the 20th Century Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in SPAN) Credits: 3

Recommended:

- ANTH E335 - Ancient Civilizations of Mesoamerica Cr. 3.
- ANTH P370 - Ancient Cultures of South America Cr. 3.
- LING L360 - Language in Society Cr. 3.
- WOST W301 - International Perspectives on Women Cr. 3.

School of Arts and Sciences Requirements

English Writing Credits: 0

- (requirement is satisfied by SPAN W300, listed below)

Foreign Language (10–14 credits)

- SPAN S203 - Second-Year Spanish I Cr. 3.
- SPAN S204 - Second-Year Spanish II Cr. 3.

One of the following: Credits: 4-8

- SPAN S111 - Elementary Spanish I Cr. 4.
- SPAN S112 - Elementary Spanish II Cr. 4.
- SPAN S113 - First-year Spanish in One Semester Cr. 4.

Distribution (not in SPAN)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Credits in Western tradition Credits: 3
- Non-Western culture requirement may be satisfied with one of the following courses Credits: 0
- SPAN S412 - Latin-American Culture and Civilization Cr. 3.
- SPAN S471 - Spanish-American Literature I Cr. 3.
- SPAN S472 - Spanish-American Literature II Cr. 3.
- SPAN S479 - Mexican Literature Cr. 3.
- SPAN S480 - Argentine Literature Cr. 3.

Core and Concentration (Major) Courses

- SPAN S275 - *Hispanic Culture and Conversation* Credits: 3
- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.
- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.
- SPAN S317 - Spanish Conversation and Diction Cr. 3.
- SPAN W300 - Methods of Research and Criticism Cr. 3.
(taught in fall semester: should be taken concurrently with S301 or S302)

One of the following courses in Spanish linguistics: Credits: 3

- SPAN S425 - Spanish Phonetics Cr. 3.
- SPAN S426 - Introduction to Spanish Linguistics Cr. 3.
- SPAN S428 - Applied Spanish Linguistics Cr. 3.

One of the following courses in Spanish literature: Credits: 3

- SPAN S407 - Survey of Spanish Literature I Cr. 3.
- SPAN S408 - Survey of Spanish Literature II Cr. 3.

One of the following courses in Spanish-American literature:
Credits: 3

- SPAN S471 - Spanish-American Literature I Cr. 3.
- SPAN S472 - Spanish-American Literature II Cr. 3.

Additional credits in 400-level Spanish civilization, language,
or literature courses Credits: 6

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Spanish with Teacher Certification (B.A.)

Program: B.A. with Teacher Certification

**Department of International Language and Culture
Studies**

School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

Students pursuing a B.A. with a major in Spanish with teacher certification must fulfill the requirements of IPFW (see Part 7), the School of Arts and Sciences (see Part 3), and the School of Education (see Part 3) and satisfactorily complete the following requirements.

Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The National Teachers Examination (NTE) Specialty Area Tests must be completed before or during the student-teaching semester, normally in your senior year.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

- LING L103 - Introduction to the Study of Language Cr. 3.

One of the following: Credits: 3

- HIST H232 - The World in the 20th Century Cr. 3.
- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in SPAN) Credits: 3

Recommended:

- ANTH E335 - Ancient Civilizations of Mesoamerica Cr. 3.
- ANTH P370 - Ancient Cultures of South America Cr. 3.
- LING L360 - Language in Society Cr. 3.
- WOST W301 - International Perspectives on Women Cr. 3.

School of Arts and Sciences Requirements

English Writing Credits: 0

(requirement is satisfied by SPAN W300, listed below)

Foreign Language (10–14 credits)

- SPAN S203 - Second-Year Spanish I Cr. 3.
- SPAN S204 - Second-Year Spanish II Cr. 3.

One of the following: Credits: 4-8

- SPAN S111 - Elementary Spanish I Cr. 4.
- SPAN S112 - Elementary Spanish II Cr. 4.
- SPAN S113 - First-year Spanish in One Semester Cr. 4.

Distribution (not in SPAN)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Credits in Western tradition Credits: 3
- Non-Western culture requirement may be satisfied with the following courses Credits: 0

- SPAN S412 - Latin-American Culture and Civilization Cr. 3.
- SPAN S471 - Spanish-American Literature I Cr. 3.
- SPAN S472 - Spanish-American Literature II Cr. 3.
- SPAN S479 - Mexican Literature Cr. 3.

- SPAN S480 - Argentine Literature Cr. 3.

Core and Concentration (Major) Courses

- SPAN S275 - *Hispanic Culture and Conversation* Credits: 3
- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.
- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.
- SPAN S317 - Spanish Conversation and Diction Cr. 3.
- SPAN S488 - Spanish for Teachers Cr. 3.
- SPAN W300 - Methods of Research and Criticism Cr. 3.
(taught in fall semester: should be taken concurrently with S301 or S302)

One of the following courses in Spanish linguistics: Credits: 3

- SPAN S425 - Spanish Phonetics Cr. 3.
- SPAN S426 - Introduction to Spanish Linguistics Cr. 3.
- SPAN S428 - Applied Spanish Linguistics Cr. 3.

One of the following courses in Spanish literature: Credits: 3

- SPAN S407 - Survey of Spanish Literature I Cr. 3.
- SPAN S408 - Survey of Spanish Literature II Cr. 3.

One of the following courses in Spanish-American literature: Credits: 3

- SPAN S471 - Spanish-American Literature I Cr. 3.
- SPAN S472 - Spanish-American Literature II Cr. 3.

One of the following culture/civilization courses: Credits: 3

- SPAN S413 *Hispanic Culture in the U.S.*
- SPAN S411 - Spain: The Cultural Context Cr. 3.
- SPAN S412 - Latin-American Culture and Civilization Cr. 3.

Additional credits in 400-level Spanish civilization, language, or literature courses Credits: 3

Professional Education

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUC F300 - *Invitation to Teaching* Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC W200 - Using Computers for Education Cr. 1.
Credits: 1

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
Credits: 0
- EDUC M445 - Methods of Teaching Foreign Languages Cr. 3.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
Credits: 10
- EDUC P250 - General Educational Psychology Cr. 1-4.
Credits: 3
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.
Credits: 3
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

Middle School Certification (Recommended)

- EDUC M470 - Practicum Cr. 3-8.
Credits: 4

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Speech and Hearing Therapy (B.S.)

Program: B.S.

Audiology and Speech Sciences

School of Arts and Sciences

Neff Hall 279 ~ 260-481-6410 ~ www.ipfw.edu/aus

This preprofessional degree helps you prepare to pursue the master's degree in speech-language pathology or audiology and the following professional credentials: the Indiana Schools Standard Services-Specialist License, the license from the Indiana Speech-Language Pathology and Audiology Board, and the Certificate of Clinical Competence from the American Speech-Language-Hearing Association. With full academic preparation, including a master's degree in speech-language pathology or audiology, you may begin human-service careers working with children, adults, and/or older persons who have speech, language, or hearing disorders. You will offer professional assistance to enhance our most distinctive human ability — communication.

The curriculum offers courses and practical experiences that prepare you to work with communicatively disabled individuals in such settings as schools, hospitals, agencies, rehabilitation centers, clinics, and private practices. Beginning practicum courses prepare the student to work with clients. These practicum courses offer services through the speech-language clinic to the campus and surrounding community.

To earn the B.S. with a major in speech and hearing therapy, you must fulfill the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3) in addition to the following requirements:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following:

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following:

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
required

Area III—The Individual, Culture, and Society Credits: 6

- LING L103 - Introduction to the Study of Language Cr. 3.
required; select one course from
- PSY 120 - Elementary Psychology Cr. 3.
or
- SOC S161 - Principles of Sociology Cr. 3.
or
- SOC S163 - Social Problems Cr. 3.

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

- PHIL 111 - Ethics Cr. 3.
or
- PHIL 120 - Critical Thinking Cr. 3.
recommended

Area V—Creative and Artistic Expression Credits: 3

Select one:

- ENG W103 - Introductory Creative Writing Cr. 3.
- JOUR J210 - Visual Communication Cr. 3.
- MUS L153 - Introduction to Music Therapy Cr. 3.
recommended

Area VI—Inquiry and Analysis (not in AUS) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing Credits: 3

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language Credits: 8

- *Foreign Language (111 and 112)*

Core and Concentration (Major) Courses

- AUS 115 - Introduction to Communicative Disorders Cr. 3.
- AUS 302 - Acoustic Bases of Speech and Hearing Cr. 3.
- AUS 304 - Anatomy and Physiology of the Speech and Hearing Mechanism Cr. 4.
- AUS 306 - Introduction to Phonetics Cr. 3.
- AUS 309 - Language Development Cr. 3.
- AUS 420 - Introduction to Developmental Speech and Language Disorders Cr. 3.
- AUS 460 - Introduction to Assessment Audiology Cr. 4.
- AUS 516 - Foundations of Assessment in Communication Disorders Cr. 3.
- AUS 521 - Phonetic and Phonological Disorders in Children Cr. 2.

Credits from the following courses:

Students intending to pursue graduate studies are urged to select AUS 449 and should also consider completion of AUS 549. If 549 is not selected, then 590 should be the selection.

- AUS 181 - First Course in American Sign Language Cr. 3.
- AUS 182 - Second Course in American Sign Language Cr. 3.
- AUS 399 - Directed Study in Audiology and Speech Sciences Cr. 1-3.
- AUS 405 - Augmentative and Computer Applications in Speech and Language Cr. 3
- AUS 430 - Speech-Language Disorders in Healthcare Settings Cr. 3
- AUS 449 - Introduction to Clinical Practice in Speech-Language Pathology Cr. 2-3.
- AUS 549 - Clinical Practice in Speech/ Language Pathology I Cr. 1-8.
- AUS 550 - Aural Rehabilitation for Adults Cr. 4.
- AUS 551 - Aural Rehabilitation for Children Cr. 3.
- AUS 590 - Directed Study of Special Problems Cr. 1-6.

General Elective Courses

You may wish to consider elective courses that fulfill requirements for a minor that supports preparation of AUS majors. Sufficient additional credits to bring the total to 124. Recommended:

- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- COM 303 - Intercultural Communication Cr. 3.
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- PHIL 312 - Medical Ethics Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.
- PSY 235 - Child Psychology Cr. 3.

- PSY 350 - Abnormal Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.
- SOC S163 - Social Problems Cr. 3.

Total Credits: 124

Theatre (B.A.)

Program: B.A.

Department of Theatre

School of Visual and Performing Arts

Williams Theatre 128 ~ 260-481-6551 ~ www.ipfw.edu/vpa

To earn the B.A. with a major in theatre, you must satisfy the requirements of IPFW (see Part 7) and the School of Visual and Performing Arts (see Part 3), complete the following courses, earn a grade of C or better in each theatre course, and fulfill additional requirements specified in the theatre student handbook:

IPFW General Education Requirements (36 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

- Reading/Writing Credits: 3
- Quantitative Reasoning Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

May not use THTR-prefixed course to fulfill requirement

- HIST H113 - History of Western Civilization I Cr. 3.
- HIST H114 - History of Western Civilization II Cr. 3.

Area IV—Humanistic Thought Credits: 6

Must include one of the following:

May not use THTR-prefixed course to fulfill requirement.

- FINA H101 - Art Appreciation Cr. 3.
- MUS Z101 - Music for the Listener Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

May not use THTR-prefixed course to fulfill requirement.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Writing Requirements

- ENG W233 - Intermediate Expository Writing Cr. 3.

Theatre Core Courses (52 credits)

- THTR 138 - Acting I Cr. 3.
- THTR 158 - Stagecraft Cr. 3.
- THTR 168 - Theatre Production I Cr. 1-2.
Must take 6 semesters of this course, 6 credits total.
- THTR 201 - Theatre Appreciation Cr. 3.
- THTR 213 - Voice for the Actor Cr. 2.
- THTR 256 - Stage Makeup Cr. 2.
- THTR 261 - Introduction to Theatrical Design Cr. 3.
- THTR 284 - Textual Analysis Cr. 3.
- THTR 351 - Costume Techniques I Cr. 3.
- THTR 440 - Beginning Directing Cr. 3.
- THTR 470 - Theatre and Society I Cr. 3.
- THTR 471 - Theatre and Society II Cr. 3.
- THTR 499 - Senior Performance Project Cr. 2.
- THTR 501 - Stage Management Cr. 3.

One of the following: Credits: 3

- THTR 355 - American Musical Theatre Cr. 3.
- THTR 583 - American Theatre History and Drama Cr. 3.

One of the following: Credits: 3

- THTR 360 - Scenic Design Cr. 3.
- THTR 361 - Costume Design Cr. 3.
- THTR 362 - Light Design Cr. 3.

Credits in dramatic literature Credits: 3

Choose from among the following:

- ENG L220 - Introduction to Shakespeare Cr. 3.
 - ENG L315 - Major Plays of Shakespeare Cr. 3.
 - ENG L362 - Modern Drama Cr. 3.
- or any dramatic-literature course

Emphasis Area Credits: 15-18

Credits from emphasis area below

Elective Courses Credits: 18-22

- Sufficient elective credits to bring total to 124.

Total Credits: 124

Emphasis Areas

Acting (17 credits)

- THTR 238 - Acting II Cr. 3.
- THTR 323 - Acting: Movement for the Actor Cr. 2.
- THTR 338 - Acting III Cr. 3.
- THTR 413 - Advanced Voice for the Stage Cr. 3.
- THTR 438 - Acting IV Cr. 3.
- THTR 536 - Advanced Problems in Acting Cr. 1-3.

Design and Technology (18 credits)

- THTR 264 - Rendering Techniques Cr. 3.
- THTR 365 - Period Style for the Theatre I Cr. 3.
- THTR 366 - Period Style for the Theatre II Cr. 3.

Two of the following: Credits: 6

- THTR 360 - Scenic Design Cr. 3.
- THTR 361 - Costume Design Cr. 3.
- THTR 362 - Light Design Cr. 3.

One of the following: Credits: 3

- THTR 560 - Advanced Scenic Design Cr. 3.
- THTR 561 - Advanced Costume Design Cr. 3.
- THTR 562 - Advanced Light Design Cr. 3.

Directing (17 credits)

- THTR 323 - Acting: Movement for the Actor Cr. 2.
- THTR 362 - Light Design Cr. 3.
- THTR 365 - Period Style for the Theatre I Cr. 3.
- THTR 366 - Period Style for the Theatre II Cr. 3.
- THTR 540 - Advanced Directing Cr. 3.
- THTR 542 - Advanced Problems in Theatre Directing Cr. 3.

Playwriting (15 credits)

- ENG W103 - Introductory Creative Writing Cr. 3.
- THTR 376 - Introduction to Playwriting Cr. 3.
- THTR 576 - Playwriting Cr. 3.

Writing elective Credits: 3

Selected from

- ENG W203 - Creative Writing Cr. 3.
- ENG W310 - Language and the Study of Writing Cr. 3.

Choose one of the following:

- COM 436 - Script Writing Cr. 3.
- THTR 576 - Playwriting Cr. 3.
[repeated]

Dramatic literature elective Credits: 3

(Selected from ENG L sequence courses or THTR electives with significant dramatic literature content.)

Individualized Emphasis (15–18 credits)

- Choose 15 credits with advisor; must be approved by faculty.

Theatre Teaching (B.A.)

Program: B.A.

Department of Theatre

School of Visual and Performing Arts

Williams Theatre 128 ~ 260-481-6551 ~ www.ipfw.edu/vpa

To earn a B.A. with a major in theatre teaching, you must satisfy the requirements of IPFW (see Part 7) and the School of Visual and Performing Arts (see Part 3), complete the following courses, and earn a grade of C or better in required theatre courses:

IPFW General Education Requirements (36 credits)

Area I—Linguistic and Numerical Foundations Credits: 9

- Reading/Writing Credits: 3
- Quantitative Reasoning Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society

May not use THTR-prefixed course to fulfill requirement.

- HIST H113 - History of Western Civilization I Cr. 3.
- HIST H114 - History of Western Civilization II Cr. 3.

Area IV—Humanistic Thought

One of the following: Credits: 3

May not use THTR-prefixed course to fulfill requirement.

- FINA H101 - Art Appreciation Cr. 3.
- MUS Z101 - Music for the Listener Cr. 3.

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

May not use THTR-prefixed course to fulfill requirement.

Area VI—Inquiry and Analysis Credits: 3

See Part 2 General Education Requirements for approved courses

Writing Requirements

- ENG W233 - Intermediate Expository Writing Cr. 3.

Theatre Core Courses (40 credits)

- Additional theatre courses Credits: 6
- THTR 134 - Fundamentals of Performance Cr. 3.
- THTR 136 - Rehearsal and Performance I Cr. 1-2.
- THTR 138 - Acting I Cr. 3.
- THTR 158 - Stagecraft Cr. 3.
- THTR 168 - Theatre Production I Cr. 1-2.
- THTR 213 - Voice for the Actor Cr. 2.
- THTR 238 - Acting II Cr. 3.
- THTR 261 - Introduction to Theatrical Design Cr. 3.
- THTR 284 - Textual Analysis Cr. 3.
- THTR 440 - Beginning Directing Cr. 3.
- THTR 470 - Theatre and Society I Cr. 3.
- THTR 471 - Theatre and Society II Cr. 3.

One of the following:

- THTR 360 - Scenic Design Cr. 3.
- THTR 361 - Costume Design Cr. 3.
- THTR 362 - Light Design Cr. 3.

Professional Education (32 credits)

Group I

- EDUC F300 - *Invitation to Teaching* Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
PPST (Pre-Professional Skills Test)
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
- EDUC W200 - Using Computers for Education Cr. 1.

Group II

- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
- EDUC P250 - General Educational Psychology Cr. 1-4.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.

One of the following: Credits: 3

- EDUC M447 - Methods of Teaching High School English Cr. 3.
- EDUC M478 - Methods of Teaching High School Speech Cr. 2-4.

Electives Credits: 24

Credits in electives (see note, below)

Total Credits: 128

Teacher Certification Concentration

The following teacher-certification concentration in English is highly recommended in partial fulfillment of the degree requirements. Specific courses should be selected in consultation with your advisor or an advisor in the Department of English and Linguistics. Courses used to fulfill IPFW general education requirements cannot be used.

- Credits in two additional courses in literature, 200 level or higher Credits: 6
- Credits in one additional course in language study Credits: 3

- Credits in one course in writing (students should complete one course in expository writing or composition theory and one course in creative writing) Credits: 3
- Credits in one course in ethnic, minority, or non-Western literature Credits: 3
- Credits in one course in Western literature other than British or American Credits: 3
- Credits in one course in mass communication, including journalism and film Credits: 3

Total Credits: 21

Women's Studies (B.A.)

Program: B.A.

School of Arts and Sciences

Classroom-Medical Building 272 ~ 260-481-6711

Women's studies is based on the premise that the study of women's experiences, concerns, social roles, and creativity is essential to our knowledge of humankind and society. Feminist scholarship and theory provide the knowledge and analytical tools necessary for a gender-balanced perspective on our world, both past and present. The Women's Studies Program affords you the opportunity to pursue feminist scholarship on women and gender through a variety of interdisciplinary courses.

In addition to the B.A. program, an Associate of Arts with a concentration in women's studies is available at IPFW. See School of Arts and Sciences in Part 3 for further information.

To earn the Bachelor of Arts with a major in women's studies, you must satisfy the requirements of IPFW (see Part 7) and the School of Arts and Sciences (see Part 3), and complete the following courses. Only women's studies courses in which you have earned a grade of C or better can be applied to the degree or used to satisfy prerequisites.

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.

One of the following: Credits: 3

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W140 - Elementary Composition, Honors Cr. 3.

One of the following: Credits: 3

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 168 - Mathematics for the Liberal Arts Student Cr. 3.
- STAT 125 - Communicating with Statistics Cr. 3.

Area II—Natural and Physical Sciences Credits: 6

See Part 2 General Education Requirements for approved courses

Area III—The Individual, Culture, and Society Credits: 6

See Part 2 General Education Requirements for approved courses

Area IV—Humanistic Thought Credits: 6

See Part 2 General Education Requirements for approved courses

Area V—Creative and Artistic Expression Credits: 3

See Part 2 General Education Requirements for approved courses

Area VI—Inquiry and Analysis (not in WOST) Credits: 3

See Part 2 General Education Requirements for approved courses

School of Arts and Sciences Requirements

English Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.
(or other approved writing course)

Foreign Language

- Requirements in Arts and Sciences Part B Credits: 14

Distribution (not in WOST or cross-listed courses)

- Requirements in Arts and Sciences Part C Credits: 9

Cultural Studies

- Additional credits in Western tradition Credits: 3
- WOST W301 - International Perspectives on Women Cr. 3.

(credits included in Major Requirements, below)

Core and Concentration (Major) Courses

- Credits in WOST or cross-listed humanities/visual arts Credits: 6
- Credits in WOST or cross-listed social science/science Credits: 6
- Additional credits in WOST or cross-listed courses Credits: 9
- WOST W210 - Introduction to Women's Studies Cr. 3.
- WOST W301 - International Perspectives on Women Cr. 3.
- WOST W400 - Topics in Women's Studies Cr. 3.

General Elective Courses

- Sufficient additional credits to bring the total to 124.

Total Credits: 124

Notes

A thematic focus of at least three courses (9 of the 30 credits in Major Requirements) must be selected in consultation with your women's studies advisor. The thematic focus provides coherence within this interdisciplinary major and can be defined in several ways: geographically (e.g., women in America, women in Western Europe); chronologically (e.g., women in antiquity, women of the Renaissance); by a category or issue (e.g., women and peace, women of color), and so on.

If you major in women's studies, you are also required to have a second major or one or more minors in other arts and sciences disciplines. If you elect to double-major in women's studies and another arts and sciences discipline, women's studies may be either your first or second major.

You may count the courses taken to fulfill this major toward arts and sciences distribution requirements wherever possible. However, no more than two courses may be applied to both majors.

If you elect to combine a women's studies major with one or more minors in other arts and sciences disciplines, you may count only two courses toward both the women's studies major and School of Arts and Sciences distribution requirements. Only one course may be counted toward both the women's studies major and any other minor.

Certificate

Accounting Post-Baccalaureate Certificate

Neff Hall 366 - 260-481-6472

Note: The Post-Baccalaureate Certificate in Accounting (P.B.A.) is offered by the Department of Accounting and Finance. Typically, students who pursue the P.B.A. are seeking an academic program of recognized quality that will help them prepare for careers in accounting. In combination with a bachelor's degree earned at an appropriately accredited institution, the P.B.A. meets the current minimum accounting educational requirements to sit for the Uniform Certified Public Accounting Examination in Indiana if students select the correct electives. Additional nonaccounting business credits may be required.

Admission Admission to the P.B.A. program is limited to holders of bachelor's degrees awarded by institutions that were accredited at the baccalaureate level by the North Central Association of Colleges and Schools (or comparable regional association) at the time the degree was granted.

To enroll in the program, you must first be formally admitted to IPFW. You must provide the IPFW admissions office with official transcripts documenting completion of your bachelor's degree.

Certificate Requirements Individuals interested in the P.B.A. program should check with either the department (Neff 350) or the school's Student Affairs Center (Neff 366) for specific program requirements and further information.

Special Academic Regulations for P.B.A. Students

Performance Standards With the exception of the minimum GPA for retention, P.B.A. students are held to the performance standards specified for students in undergraduate business programs. See Business later in this part of the Bulletin.

Course Waivers You may be eligible for waivers of course requirements based upon academic courses taken as part of your bachelor's program if those courses were completed within the past five calendar years.

Advanced Microprocessors Certificate

Program: Certificate Department of Electrical and Computer Engineering Technology College of Engineering Technology, and Computer Science

*Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~
www.ecet.ipfw.edu*

The certificate program in advanced microprocessors provides the theoretical and practical knowledge necessary to enable you to use microprocessors in industrial applications. Some highlights of the course sequence include introduction to and use of Visual Basic in electronic simulations and calculations; theoretical and laboratory applications of digital logic circuits,

operational amplifiers, D/A and A/D converters, computer memory circuits; microprocessor assembly language programming; EEPROM and EPROM programming; microprocessors and microcontrollers; experimental applications; and applied, practical projects. Special emphasis is placed on embedded systems using microcontrollers.

Upon satisfactory completion of the program, you will understand the operation of microprocessors; be able to design and construct a microprocessor-based circuit; be able to program a microprocessor in assembly language, Visual Basic, or C; and be able to use your designed circuit to control or monitor the operation of an industrial process.

The ECET department also offers the Bachelor of Science and Associate of Science with a major in electrical engineering technology, and a Bachelor of Science with a major in computer engineering technology (CPET). In addition to the degrees, the department offers a minor in electronics and certificate programs in computer-controlled systems, electronic communications, power electronics systems, and computer networking.

To earn the certificate in advanced microprocessors, you must satisfy the requirements of IPFW (see Part 7), fulfill all course prerequisites, and satisfactorily complete the following courses. This certificate is not available to any student with a major in EET (A.S. and/or B.S.) or CPET (B.S.).

Program Requirements

- ECET 111 - Digital Circuits Cr. 4.
- ECET 205 - Introduction to Microprocessors Cr. 4.
- ECET 264 - C Programming Language Applications Cr. 3.
- ECET 305 - Advanced Microprocessors Cr. 4.

One of the following:

- CS 114 - Introduction to Visual Basic Cr. 3.
- ECET 114 - Introduction to Microcomputers Cr. 3.

Total Credits: 18

American Studies Certificate

Program: Certificate in American Studies School of Arts and Sciences

Classroom-Medical Building 153 ~ 260-481-6160

Available to students pursuing majors in English or history, this program encourages a broad, interdisciplinary understanding of American history, culture, and society and can be appropriate preparation for graduate specialization in literature, history, American studies, and law.

To earn the certificate, you must (1) complete all courses for the B.A. with courses emphasizing American history or American literature, and (2) complete the following 30 credits with a grade of C or higher in each course:

Program Requirements

- Credits in American offerings in the social sciences Credits: 9
- Credits outside your major in American history or American literature Credits: 15
- AMST A301 - The Question of American Identity Cr. 3.
- AMST A440 - Senior Seminar in American Studies Cr. 3.

Total Credits: 30

Biology Research Certificate

Program: Research Certificate

Department of Biology

School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

Research Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

History, Philosophy, or Theory of the Discipline

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.

Cognate Research Tools

- STAT 340 - Elementary Statistical Methods II Cr. 3.

Research Methods and Supervised Individual Research Credits: 6

The BIOL 295/595 must contain the prefix RES: in its title to signify laboratory or fieldwork involving the design of an original project and collection and analysis of data.

- BIOL 295 - Special Assignments Cr. 1-3
and/or
- BIOL 595 - Special Assignments Cr. 1-4.

Total Credits: 30

Computer Networking Certificate

Program: Certificate

Department of Electrical and Computer

Engineering Technology

College of Engineering, Technology, and Computer Science

*Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~
www.ecet.ipfw.edu*

This certificate program in computer networking provides the theoretical and practical knowledge necessary to enable you to work with computer operating systems, data communication and network equipment, networking protocols, network system administration, local area networks, wide area networks, and network security.

The ECET department also offers the Bachelor of Science and Associate of Science with a major in electrical engineering technology and a Bachelor of Science with a major in computer engineering technology. In addition to the degrees, the department offers a minor in electronics and certificate programs in advanced processors, computer-controlled systems, electronics communications, and power electronics systems.

To earn the certificate in computer networking, you must fulfill all course prerequisites, and successfully complete the following courses with a grade of C or better in each course. This certificate is not available to any student with a major in CPET (B.S.).

Program Requirements

- CPET 181 - Computer Operating Systems Basics Cr. 3.
- CPET 281 - Local Area Networks and Management Cr. 3.

- CPET 364 - Networking Security Cr. 3.

One of the following Credits: 3

- CS 170 - C and Data Structures Cr. 3.
- ECET 264 - C Programming Language Applications Cr. 3.

One of the following Credits: 4

- CPET 355 - Data Communications and Networking Cr. 4.
- CS 274 - Data Communications Cr. 3.
(plus one-hour lab)
- ECET 355 - Data Communications and Networking Cr. 4.

One of the following Credits: 3

- CPET 384 - Wide Area Network Design Cr. 3.
- CPET 493 - Wireless Networking Cr. 3
- CPET 495 - Web Engineering and Design Cr. 4.
- CPET 499 - Computer Engineering Technology Cr. 1-4.
- CS 374 - Computer Networks Cr. 3.

Total Credits: 19

Computer-Controlled Systems Certificate

Program: Certificate

Department of Electrical and Computer Engineering Technology College of Engineering, Technology, and Computer Science

*Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~
www.ecet.ipfw.edu*

This certificate program provides theory and experiments on computer-controlled system design and implementation. Three methods of computer control — programmable logic controller (PLC), General Purpose Interface Bus system (GPIB, HPIB, or IEEE 488), and microcontroller-based

systems — are studied. Highlights of the course sequence include data acquisition using low- and high-level languages, control-variable measurement using sensors, D/A and A/D conversions, ladder diagrams, design of pneumatic and hydraulic-controlled systems, sampling and reconstruction, z transform, stability-analysis techniques, comparisons of continuous and discrete time-controlled systems, and open- and closed-loop controlled systems.

Upon satisfactory completion of this certificate program, you will be able to build your own computer-controlled system using a PLC, a GPIB, or a microcontroller.

The ECET department also offers the Bachelor of Science and Associate of Science with a major in electrical engineering technology, and Bachelor of Science with a major in computer engineering technology. In addition to the degrees, the department offers a minor in electronics and certificate programs in advanced microprocessors, electronics communications, power electronics systems, and computer networking.

To earn the certificate in computer-controlled systems, you must satisfy the requirements of IPFW (see Part 7), fulfill all course prerequisites, and satisfactorily complete the following courses with a grade of C or better. This certificate is not available to any student with a major in EET (A.S. and/or B.S.).

Program Requirements

- ECET 205 - Introduction to Microprocessors Cr. 4.
- ECET 302 - Introduction to Control Systems Cr. 4.

One of the following Credits: 3

- CS 114 - Introduction to Visual Basic Cr. 3.
- ECET 114 - Introduction to Microcomputers Cr. 3.

One of the following Credits: 4

- CPET 355 - Data Communications and Networking Cr. 4.
- ECET 355 - Data Communications and Networking Cr. 4.
- ECET 375 - Computer Controlled System Designs Cr. 3-4.

One of the following Credits: 4

- CPET 472 - Automatic Control Systems Cr. 4.
- ECET 365 - Electrical Measurements Cr. 4.
- ECET 472 - Automatic Control Systems Cr. 4.

Total Credits: 19

Critical Care Nursing Certificate

Program: Certificate

Department of Nursing

School of Health Sciences

Neff Hall B50 ~ 260-481-6816 ~ www.ipfw.edu/hsc_nur

The primary objectives of this certificate are to provide:

- advanced knowledge and skills in the specialty of critical-care nursing to registered nurses and student nurses about to enter the workforce.
- the opportunity for nurses working in or intending to work in any acute-care area of nursing to increase skills and knowledge in critical care to meet the growing challenge of providing care to increasingly sick patients within the managed-healthcare environment.
- increased marketability of graduates from this program in a market where critical-care skills are valued.

To earn the certificate, you must:

- fulfill the requirements of IPFW (see Part 7).
- be a licensed RN. (Students enrolled in second-year nursing courses in the IPFW nursing program may participate with permission of the certificate program coordinator.)
- complete the following courses with a C or better:

Nursing Core (5 credits)

- NUR 362 - Acute Care Nursing Credits: 4
- NUR 245 - Basic Cardiac Dysrhythmias Cr. 1.
- NUR 345 - Trauma Nursing Cr. 1.
- NUR 399 - Special Topics Cr. 1-6.

Critical Care Clinical Credits: 1-2

Supporting Courses (7 credits)

- NUR 334 - Clinical Pathophysiology Cr. 4.
- PHIL 312 - Medical Ethics Cr. 3.

Approved Electives (3 credits)

(Credits in a course from nursing, SPEA, or the social sciences that better meets your goals may be substituted with the permission of the program coordinator)

One of the following Credits: 3

- GERN G231 - Introduction to Gerontology Cr. 3.
- NUR 309 - Transcultural Healthcare Cr. 3.
- NUR 319 - Alternative and Complementary Therapies Cr. 3.
- NUR 399 - Special Topics Cr. 1-6.
- PSY 367 - Adult Development and Aging Cr. 3.

Total Credits: 16–17

Dental Assisting Certificate

Program: Certificate in Dental Assisting Department of Dental Education School of Health Sciences

Neff Hall 150 ~ 260-481-6837

This program includes at least one semester of prerequisite courses and one year of dental assisting courses. The program offers a full-time curriculum that is accredited by the Commission on Dental Accreditation of the American Dental Association.

A Dental Assisting Certificate prepares you for a career as a dentalhealth professional who may choose to specialize in any of the following areas of dentistry: chairside general dentistry, expanded functions dental assisting (restorative) in general or pediatric dentistry, orthodontics, oral surgery, periodontics, assist in dental surgery at area hospitals, endodontics, public health dentistry, dental sales, dental insurance, dental research, business assisting, or office management or clinical supervision. The program combines didactic, laboratory, and clinical courses. Graduates are eligible to take the national boards to become a certified dental assistant (CDA) and take the state boards to obtain a dental radiology license in the State of Indiana.

Admission

Admission to IPFW does not confer admission to this program. To be admitted to the certificate program you apply separately to IPFW and the dental assisting program. Prospective dental assisting students must first complete prerequisite courses listed below or equivalent courses at another accredited college or university. These courses may not be graded on a pass/not-pass option. Remedial or developmental courses cannot be used to fulfill these prerequisite requirements. Students must maintain a GPA of 2.50 or higher. Two observations in dental offices are required. See department for application and observation forms. You must also make an appointment with a dental assisting advisor to discuss the program. Because space in the dental assisting program is limited to 24 students per year, admission is competitive. Applications for selection into the dental assisting program must be received no later than April 1 of the year an applicant wishes to enter the program. The number of eligible applicants each year exceeds the number of spaces available.

Prerequisite Courses

To apply for the Dental Assisting Certificate program, you must complete the following prerequisite courses by Aug. 15 with a cumulative GPA or higher grade of C:

Prerequisite and preferred admission courses must be completed by Aug. 15 for admission into the class that begins each fall. A minimum prerequisite GPA of 2.00 is required for all applicants. Required courses may be repeated until the applicant receives a grade of C or better. Repeated courses will not be averaged.

Effective for the 2008 class, the minimum prerequisite GPA of 3.0 will be required for all applicants.

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.

Preferred Admission

- CS 106 - Introduction to Computers Cr. 3.
- DAST A122 - Introduction to Dentistry Cr. 1.
- NUR 106 - Medical Terminology Cr. 3.

Total Credits: 9-16

Program Requirements

After acceptance into the program, you must fulfill the requirements of IPFW (see Part 7) and Dental Education, and satisfactorily complete the following courses:

- DAST A111 - Oral Pathology, Physiology, and Anatomy Cr. 1-2.
- DAST A112 - Dental and Medical Emergencies and Therapeutics Cr. 2.
- DAST A121 - Microbiology and Asepsis Technique Cr. 1-2.
- DAST A131 - Dental Materials I Cr. 2.
- DAST A132 - Dental Materials II Cr. 2.
- DAST A141 - Preventive Dentistry and Nutrition Cr. 2.
- DAST A171 - Clinical Science I Cr. 4.
- DAST A172 - Clinical Science II Cr. 3-4.
- DAST A182 - Practice Management, Ethics, and Jurisprudence Cr. 2.
- DHYG H214 - Oral Anatomy Cr. 3
- DHYG H242 - Introduction to Dentistry - Specialities Cr. 1.
- DHYG H303 - Radiology (lecture and lab) Cr. 1-2.
- DHYG H305 - Radiology Clinic I Cr. 1.

Total Credits: 29

Electronic Communications Certificate

Program: Certificate
Department of Electrical and Computer
Engineering Technology
College of Engineering, Technology, and Computer
Science

*Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~
www.ecet.ipfw.edu*

This certificate program provides theory and experiments for electronic communications topics ranging from low-frequency applications to fiber optics. It includes courses in analog communications (AM and FM), digital communications (satellite communications and digital TV), microwaves (high-frequency communications), and fiber optics. Computer programs such as SPICE, ACOLADE (digital communications), SYSCAD (analog communications), TOUCHSTONE (RF and microwave systems), and Microwave Office are incorporated into the curriculum.

Upon satisfactory completion of this certificate program, you will be familiar with all aspects of electronic communication and will have a technical background for work in any of the areas.

The ECET department also offers the Bachelor of Science and Associate of Science with a major in electrical engineering technology, and Bachelor of Science with a major in computer engineering technology. In addition to the degrees, the department offers a minor in electronics and certificate programs in advanced microprocessors, computer-controlled systems, power electronics systems, and computer networking.

To earn the certificate in electronic communications, you must satisfy the requirements of IPFW (see Part 7), fulfill all course prerequisites, and satisfactorily complete the following courses. This certificate is not available to any student with a major in EET (A.S. and/or B.S.).

Program Requirements

- ECET 303 - Communications I Cr. 4.
- ECET 377 - Introduction to Fiber Optics Cr. 4.
- ECET 403 - Communications II Cr. 4.
- ECET 473 - Microwaves Cr. 4.

Total Credits: 16

Ethnic and Cultural Studies Certificate

Program: Certificate in Ethnic and Cultural Studies

School of Arts and Sciences

Classroom-Medical Building 154 ~ 260-481-6746

This certificate is available to all IPFW students interested in understanding the institutions, histories, and cultures of American ethnic groups.

To earn the certificate, you must (1) complete all requirements for a bachelor's degree, and (2) complete, with the approval of the program's advisory committee, 18 additional credits from the following list with a grade of C or higher in each course. No more than one independent-reading or internship course may be taken from the same department.

Credits in six of the following courses: 18

- EDUC E400 - Education in the Inner City
- EDUC E403 - Education in the Inner City Practicum
- MUS M395 - Contemporary Jazz and Soul Music

- ANTH E320 - Indians of North America Cr. 3.
- ECON E360 - Public Finance: Survey Cr. 3.
- FINA H415 - Art of Pre-Columbian America Cr. 3.
- FOLK F220 - Introduction to American Folklore Cr. 3.
- HIST A349 - Afro-American History Cr. 3.
- HIST T425 - Topics in History Cr. 1-3.
- PHIL 493 - Interdisciplinary Undergraduate Seminar Cr. 1-3.
- POLS Y398 - Internship in Urban Institutions Cr. 1-6.
- SOC S300 - Race and Ethnic Relations Cr. 3.
- SOC S494 - Field Experience in Sociology Cr. 1-6.

Total Credits: 18

Gerontology Certificate

Program: Certificate in Gerontology

School of Arts and Sciences

Classroom-Medical Building 145 ~ 260-481-6019 ~ www.ipfw.edu/gerontology/

A certificate in gerontology is available to all IPFW students earning undergraduate degrees. It is also available to non-degree-seeking students. The program provides basic academic courses concerning aging as well as course work in social issues and applied topics concerning the elderly. A practicum component involves applied work in a setting serving older individuals.

To earn the certificate, you must (1) meet all regular IPFW admission requirements (see Part 7); and (2) complete the following 18 credits with a grade of C or better in each course. The program of study must be approved by the gerontology program director. All prerequisites must be satisfied before enrolling in any of the courses listed below.

Program Requirements

- GERN G231 - Introduction to Gerontology Cr. 3.

Credits from the following Credits: 12

(you may substitute independent or directed study in gerontology or aging in a suitable department as approved by the gerontology program director):

- HSRV 351 - Human Services for the Elderly
- ANTH E421 - The Anthropology of Aging Cr. 3.
- AUS 430 - Speech-Language Disorders in Healthcare Settings Cr. 3
- BIOL 327 - Biology of Aging Cr. 3.
- FNN 302 - Nutrition Education Cr. 3.
- or
- FNN 303 - Essentials of Nutrition Cr. 3.
- MUS L340 - Music Therapy in Healthcare Settings Cr. 3.
- MUS U410 - Creative Arts, Health, and Wellness Cr. 3.
- NUR 399 - Special Topics Cr. 1-6.
- PHIL 312 - Medical Ethics Cr. 3.
- PSY 367 - Adult Development and Aging Cr. 3.
- PSY 371 - Death and Dying Cr. 3.
- SOC S331 - Sociology of Aging Cr. 3.
- SPEA H411 - Long-Term Care Administration Cr. 3.

Practicum in a gerontological setting Credits: 3

approved by the gerontology program director, chosen from the following courses. Note that some of these courses may be taken only by those majoring in the sponsoring discipline.

- NUR 490 - Nursing Practicum
- AUS 549 - Clinical Practice in Speech/ Language Pathology I Cr. 1-8.
- HSRV 400 - Internship I Cr. 1-4.
- HSRV 401 - Internship Seminar I Cr. 1.
- HSRV 450 - Internship II Cr. 2-4.
- HSRV 451 - Internship Seminar II Cr. 1.
- MUS L254 - Music Therapy Practicum I Cr. 1.
- MUS L353 - Music Therapy Practicum II Cr. 1.
- MUS L354 - Music Therapy Practicum III Cr. 1.
- MUS L421 - Music Therapy Practicum IV Cr. 1.
- MUS L424 - Music Therapy Internship Cr. 1-2.
- PHIL 480 - Practicum in Applied Ethics Cr. 3.

- PSY 480 - Field Experience in Psychology Cr. 3.
- SOC S494 - Field Experience in Sociology Cr. 1-6.
- SPEA V380 - Internship in Public Affairs Cr. 1-6.

Total Credits: 18

Honors Program Certificate

Program: Certificate All Baccalaureate Degrees

Walb Union G25 ~ 260-481-6924 ~ www.ipfw.edu/honors

The Honors Program is an undergraduate program that seeks to create learning opportunities and an environment of intellectual excitement and discovery through enriched courses of study and activities within a learning community. Through involvement with the Honors Program, honors students enter into a partnership of learning that extends well beyond the classroom to incorporate an interdisciplinary approach with career-oriented skills. Rich course opportunities and tailored projects create an individual curriculum for each student.

The program is open to students of all majors and undergraduate degrees. Traditional incoming students become eligible for the Honors Program by meeting any one of the following criteria: placing in the top 10 percent of their high school's graduating class, scoring a 650 SAT in any one category, or attaining a 1800 SAT (or 27 ACT) composite score. Any student may participate in the Honors Program after 12 or more credit hours with GPA-related grades at IPFW and a 3.3 GPA or higher. Transfer students eligible for the program must have at least 12 credit hours of GPA-related grades (A, B, C, D, F, IF) with an equivalent of at least a 3.5 GPA on a 4.0 scale from the transferring institution.

To earn the certificate along with the Honors Medal, you must fulfill the requirements of IPFW (see Part 7) and the Honors Program, which are as follows:

- 18 credits of honors coursework through honors courses or H-options
- An honors project (including presentation and paper).
- Honors courses that represent at least two disciplines.
- At least three honors credits at the 300-level or above.
- Both cumulative and honors GPA of 3.50 or higher.

In addition, students are highly encouraged to earn at least three credits of non-project honors coursework through honors courses. Because the Honors Program is an undergraduate program, all of the requirements of the program must be completed while the student is pursuing an undergraduate degree. Upon completion of such a degree, further completion of program requirements will not take effect unless work toward a different undergraduate degree is undertaken.

International Studies Certificate

Program: Certificate in International Studies

School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6632 or 260-481-6836

A certificate in international studies is available to all IPFW students who are interested in developing greater understanding of the histories and cultures of other nations and instudying the various means used to promote and maintain normal relations among them. You must be at least a sophomore in good standing to apply to this program.

To earn this certificate, you must complete the following credits with a grade of C or higher in each course as part of your bachelor's degree program:

Program Requirements

- INTL I200 - Introduction to International Studies: Emerging Global Visions Cr. 3.

Credits from the following: 6

- (at least one course) in a non-Western area:
- SOC S308 - Introduction to Comparative Sociology
- BUS D300 - International Business Administration Cr. 3.
- ECON E340 - Introduction to Labor Economics Cr. 3.
- HIST H232 - The World in the 20th Century Cr. 3.
- MUS Z105 - Traditions in World Music Cr. 3.
- POLS Y109 - Introduction to International Relations Cr. 3.
- POLS Y200 - Contemporary Political Topics Cr. 1-6,
- POLS Y374 - International Organization Cr. 3.
- POLS Y401 - Studies in Political Science Cr. 3.

Credits from the following (at least one course) in a non-Western area Credits: 3

- ANTH E310 - Introduction to the Cultures of Africa Cr. 3.
- ANTH E321 - Peoples of Mexico Cr. 3.
- ANTH E330 - Indians of South America Cr. 3.
- ANTH E455 - Anthropology of Religion Cr. 3.
- ENG L113 - Introduction to African Literature Cr. 3.
- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- HIST D410 - Russian Revolutions and the Soviet Regime Cr. 3.
- HIST D426 - History of Balkans: 1914 to Present Cr. 3.
- HIST E332 - African History from Colonial Rule to Independence Cr. 3.
- HIST F342 - Latin America: Evolution and Revolution Cr. 3.
- HIST F346 - Modern Mexico Cr. 3.

- HIST F432 - 20th Century Latin American Revolutions Cr. 3.
- HIST F447 - U.S.-Latin American Relations Cr. 3.
- HIST H202 - Russian Civilization I-II Cr. 3.
- HIST T335 - Topics in Non-Western History Cr. 3.
- POLS Y339 - Middle Eastern Politics Cr. 3.
- POLS Y340 - East European Politics Cr. 3.
- REL 301 - Islam Cr. 3
- SOC S410 - Topics in Social Organization Cr. 3.
- SPAN S412 - Latin-American Culture and Civilization Cr. 3.

Additional Credits: 6

(may be chosen from the list below and/or from the list of non-Western courses above)

- ANTH A460 - Topics in Anthropology Cr. 1-3.
- ANTH E402 - Gender in Cross-Cultural Perspective Cr. 3.
- CMLT C340 - Women in World Literature Cr. 3.
- FINA H390 - Topics in Art History Cr. 3.
- FINA H415 - Art of Pre-Columbian America Cr. 3.
- FOLK F111 - Introduction to World Folk Music Cr. 3.
- FOLK F305 - Asian Folklore Cr. 3.
- FREN F464 - Civilisation Francaise II Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.
- GER G362 - Deutsche Landeskunde Cr. 3.
- GER G363 - Deutsche Kulturgeschichte Cr. 3.
- HIST A345 - American Diplomatic History I Cr. 3.
- HIST A346 - American Diplomatic History II Cr. 3.
- HIST B361 - Europe in the 20th Century I Cr. 3.
- HIST B378 - History of Germany II Cr. 3.
- INTL I208 - International Cinema Cr. 3.
- POLS Y335 - Western European Politics Cr. 3.
- POLS Y350 - Politics of the European Union Cr. 3.
- POLS Y367 - International Law Cr. 3.
- POLS Y371 - Workshop in International Topics Cr. 3.
- POLS Y376 - International Political Economy Cr. 3.
- POLS Y401 - Studies in Political Science Cr. 3.
- SPAN S411 - Spain: The Cultural Context Cr. 3.
- WOST W301 - International Perspectives on Women Cr. 3.

Notes:

Foreign Language Requirement In addition to the 18 credits stipulated above, students must demonstrate basic proficiency in a language other than English. The proficiency may be demonstrated by placing at the third-semester level or higher on the foreign language placement test, or by completing the first two semesters of a foreign language at the college level. Students who speak a language other than English are exempt from this requirement.

Total Credits: 18

Labor Studies Certificate

Division of Labor Studies

Program Offered: Certificate in Labor Studies

Kettler Hall G28 ~ 260-481-6831 ~ www.labor.iu.edu

To earn the certificate in labor studies, you must fulfill the requirements of IPFW (see Part 7) and successfully complete the following courses:

Program Requirements

- Credits in the Labor Studies Core: 15
- 3 credits in each Required Area of Learning Credits: 9
- Additional credits in one of the Required Areas of Learning Credits: 6

Credits from the Labor Studies Core Credits: 15

Credits from the following: 15

- LSTU L100 - Survey of Unions and Collective Bargaining Cr. 3.
- LSTU L101 - American Labor History Cr. 3.
- LSTU L110 - Introduction to Labor Studies: Labor and Society Cr. 3.
- LSTU L190 - The Labor Studies Degree Cr. 1.
- LSTU L200 - Survey of Employment Law Cr. 3.
- LSTU L201 - Labor Law Cr. 3.
- LSTU L203 - Labor and the Political System Cr. 3.
- LSTU L205 - Contemporary Labor Problems Cr. 3.
- LSTU L210 - Workplace Discrimination and Fair Employment Cr. 3.
- LSTU L220 - Grievance Representation Cr. 3.
- LSTU L230 - Labor and the Economy Cr. 3.
- LSTU L240 - Occupational Health and Safety Cr. 3.
- LSTU L250 - Collective Bargaining Cr. 3.
- LSTU L251 - Collective Bargaining Laboratory Cr. 1-3.
- LSTU L255 - Unions in State and Local Government Cr. 3.
- LSTU L260 - Leadership and Representation Cr. 3.
- LSTU L270 - Union Government and Organization Cr. 3.
- LSTU L280 - Union Organizing Cr. 3.

Required Areas of Learning for Labor Studies

Arts and Humanities

- Afro-American Studies
- Classical Studies
- Communication
- Comparative Literature
- English (except R150 and W130)
- Folklore
- Foreign Language
- History
- Journalism
- Music
- Philosophy
- Theatre
- Visual Arts

Sciences and Mathematics

- Anthropology (B200 and E445 only)
- Astronomy
- Biology
- Chemistry (except 100)
- Computer Science (includes BUS K200, K211, K212, K213, K214, K215, K216)
- Economics (E270 only)
- Entomology
- Forestry and Natural Resources
- Geography (G107 and G304 only)
- Geology
- Horticulture
- Mathematics (except 101, 102, 103, 109, 111, and 113)
- Physics
- Psychology (120, 201, 314, 333, 329, and 416 only)
- Sociology (S351 only)
- SPEA (K300 only)
- Statistics

Social and Behavior Sciences

- Anthropology
- Economics
- Geography
- Linguistics
- Political Science
- Psychology
- Sociology
- SPEA (J101 only)
- WOST (W210 only)

3 credits in each Required Area of Learning Credits:
9

Additional credits in one of the Required Areas of
Learning Credits: 6

Total Credits: 30

Native American Studies Certificate

Program: Certificate in Native American Studies

School of Arts and Sciences

Classroom-Medical Building 153 ~ 260-481-6160

A certificate in Native American studies is available to all IPFW students. The program provides an appreciation of the cultures, prehistory, history, and creative and artistic expression of Native Americans for the benefit of those who may be interested in social work, economic development, and Native American organizations.

To earn the certificate, you must meet all regular IPFW admission requirements (see Part 7) and complete the following courses with a grade of C or higher in each course:

Program Requirements

Credits in ethnography of Native Americans chosen
from the following: Credits: 6

- ANTH E320 - Indians of North America Cr. 3.
- ANTH E321 - Peoples of Mexico Cr. 3.
- ANTH E330 - Indians of South America Cr. 3.
- HIST A310 - Survey of American Indians I Cr. 3.
- HIST A311 - Survey of American Indians II Cr. 3.

Credits in prehistory of Native Americans chosen from the following: Credits: 3

- ANTH E335 - Ancient Civilizations of Mesoamerica Cr. 3.
- ANTH P360 - Archaeology of North America Cr. 3.
- ANTH P370 - Ancient Cultures of South America Cr. 3.

Credits in history of Native Americans chosen from the following: Credits: 3

- HIST A310 - Survey of American Indians I Cr. 3.
- HIST A311 - Survey of American Indians II Cr. 3.
- HIST A318 - The American West Cr. 3.
- HIST F341 - Latin America: Conquest and Empire Cr. 3.
- HIST F342 - Latin America: Evolution and Revolution Cr. 3.
- HIST F432 - 20th Century Latin American Revolutions Cr. 3.

Credits in Native American studies chosen from the following: Credits: 3

- ENG L364 - Native American Literature Cr. 3.
- FINA H415 - Art of Pre-Columbian America Cr. 3.
- FOLK F352 - Native American Folklore Cr. 3.

Additional credits from the lists above or in an approved elective Credits: 3

Total Credits: 18

Peace and Conflict Studies Certificate

Program: Certificate in Peace and Conflict Studies

School of Arts and Sciences

Classroom-Medical Building 153 ~ 260-481-6019

A certificate in peace and conflict studies is available to all IPFW students who wish to understand the dynamics of conflict as well as various paths toward peace, from the interpersonal to the global level. To earn this certificate, you must complete the following 15 credits with a grade of C or higher in each course:

Program Requirements

One of the following: Credits: 3

- PACS P200 - Introduction to Peace and Conflict Studies - Humanities Perspectives Cr. 3.
- PACS P201 - Introduction to Peace and Conflict Studies - Social/Behavioral Sciences Perspectives Cr. 3.

Credits in a social and behavioral sciences courses Credits: 3

Chosen from a list available in the School of Arts and Sciences office.

Credits in a humanities course Credits: 3

Chosen from a list available in the School of Arts and Sciences office.

Credits in another course Credits: 3

Chosen from either the humanities course list or the social and behavioral sciences course list.

One of the following senior-project courses: Credits: 3

- PACS P497 - Humanities Readings and Research in Peace and Conflict Studies Cr. 1-3.
- PACS P498 - Social and Behavioral Sciences Readings and Research in Peace and Conflict Studies Cr. 1-3.
- PACS P499 - Social and Behavioral Sciences Internship in Peace and Conflict Studies Cr. 1-3.

Total Credits: 15

Piano Pedagogy Certificate

Program: Certificate in Piano Pedagogy
Department of Music
School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714

Program Requirements

If you intend to be a professional piano studio teacher, you may earn the certificate in piano pedagogy by satisfying the requirements of IPFW (see Part 7) and the School of Visual and Performing Arts (see Part 3), completing the following courses, and earning a grade of C or better in each:

- Credits in applied music Credits: 8
- Credits in ensemble course(s) Credits: 2
- MUS E193 - Piano Pedagogy I Cr. 2.
- MUS E194 - Piano Pedagogy II Cr. 2.
- MUS E293 - Piano Pedagogy III Cr. 2.
- MUS E294 - Piano Pedagogy IV Cr. 2.
- MUS M201 - Music Literature I Cr. 2.
- MUS M202 - Music Literature II Cr. 2.
- MUS T113 - Music Theory I Cr. 3.
- MUS T114 - Music Theory II Cr. 3.
- MUS T115 - Sightsinging and Aural Perception I Cr. 1.
- MUS T116 - Sightsinging and Aural Perception II Cr. 1.
- MUS X296 - Applied Music Upper Divisional Jury Examination Cr. 0.
- MUS X299 - Piano Proficiency Examination Cr. 0.

Total Credits: 30

Power Electronic Systems Certificate

Program: Certificate
Department of Electrical and Computer
Engineering Technology
College of Engineering, Technology, and
Computer Science

*Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338 ~
www.ecet.ipfw.edu*

This certificate program addresses the fundamental principles and main issues in power electronic applications and provides the theoretical and practical knowledge for analysis, design, and implementation of power electronics systems and subsystems. Applications include microprocessor-based subsystem hardware and software, electrical machines (dc and ac motors, and transformers), C programming and real-time embedded systems, characteristics of power semiconductor devices (diodes, rectifiers, power transistors, MOSFETs, thyristors, and IGBT), SPICE circuit simulators, power converters, dc drives, and ac drives.

Upon satisfactory completion of this certificate program, you will be familiar with all aspects of electronic communication and will have a technical background for work in any of the areas.

The ECET department also offers the Associate of Science and Bachelor of Science with a major in electrical engineering technology and Bachelor of Science with a major in computer engineering technology. In addition to the degrees, the department offers a minor in electronics and certificate programs in advanced microprocessors, computer-controlled systems, electronic communications, and computer networking.

Program Requirements

To earn the certificate in power electronic systems, you must satisfy the requirements of IPFW (see Part 7), fulfill all course prerequisites, and satisfactorily complete the following courses. This certificate is not available to any student with a major in EET (A.S. and/or B.S.).

- ECET 205 - Introduction to Microprocessors Cr. 4.
- ECET 231 - Electrical Power and Controls Cr. 4.
- ECET 264 - C Programming Language Applications Cr. 3.
- ECET 312 - Power Electronics Cr. 4.
- ECET 499 - Electrical Engineering Technology Cr. 1-9.

Total Credits: 19

Quality Certificate

Program: Certificate

**Department of Mechanical and Industrial
Engineering Technology
College of Engineering, Technology, and
Computer Science**

*Engineering, Technology, and Computer Science Building 205 ~ 260-481-6385 ~
www.mft.ipfw.edu*

This certificate program prepares graduates with skills in techniques related to quality, such as design of experiments, metrology, and statistical process control. The program provides focused study in the techniques of maintaining and improving quality of manufacturing processes.

Credits earned in the certificate program may be applied toward the associate and bachelor's programs in industrial engineering technology.

Program Requirements

To earn the certificate, you must fulfill the requirements of IPFW (see Part 7) and complete the following courses, earning a grade of C or better in those courses that serve as prerequisites:

- IET 105 - Industrial Management Cr. 3.
- IET 204 - Techniques of Maintaining Quality Cr. 3.
Grade of C or better required
- IET 304 - Advanced Metrology Cr. 3.
- IET 454 - Statistical Process Control Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.
Grade of C or better required

One of the following: Credits: 5-6

- MA 153 - Algebra and Trigonometry I Cr. 3.
and
- MA 154 - Algebra and Trigonometry II Cr. 3.
Grade of C or better required
or
- MA 159 - Precalculus Cr. 5.
Grade of C or better required

Total Credits: 20-21

Risk and Emergency Management Certificate

Program: Certificate in Risk and Emergency Management

Division of Public and Environmental Affairs

Neff Hall 260 ~ 260-481-6351 ~ www.ipfw.edu/spea/

The certificate in risk and emergency management will inform and enhance the knowledge base and skill level of those responsible for managing risks and emergencies.

It is recommended for students from any major that, during their careers, may directly or indirectly be involved in managing emergencies and disasters. Students need not be enrolled in a degree program to complete this certificate.

To earn the certificate, students must complete at least 11 credit hours as residency credits at IPFW. All courses must be completed with a grade of C– or better.

Program Requirements

- CS 292 - Intermediate Topics in Computer Science Cr. 2-3.
- HSC 499 - Special Topics in Health Sciences Cr. 2-6.
- SOC S410 - Topics in Social Organization Cr. 3.
- SPEA V275 - Introduction to Emergency Management Cr. 3.
- SPEA V387 - Public Administration and Emergency Management Cr. 3.
- SPEA V389 - Risk and Hazard Mitigation Cr. 3.

And Select:

- POLS Y200 - Contemporary Political Topics Cr. 1-6,
- POLS Y401 - Studies in Political Science Cr. 3.

Total Credits: 21

Supervisory Leadership Certificate

Program: Certificate Division of Organizational Leadership and Supervision

Neff Hall 288 ~ 260-481-6420

This certificate program helps you prepare for supervisory leadership positions in any industry. The classes can later be applied toward an associate degree with a major in organizational leadership and supervision. Interested individuals must apply for the program before completing 9 hours of applicable course work.

The certificate option is available to community members who enter as non-degree seeking students and to students in good academic standing who are enrolled in non-OLS plans of study. OLS-degree-seeking students are not eligible to enter the certificate program.

To earn the certificate, you must fulfill the requirements of IPFW (see Part 7) and the Division of Organizational Leadership and Supervision (see Part 3), complete the following courses, and earn a grade of C or better in each course:

Program Requirements

- OLS Elective Credits: 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 268 - Elements of Law Cr. 3.
- OLS 274 - Applied Leadership Cr. 3.
- OLS 375 - Training Methods Cr. 3.

Total Credits: 21

Teaching English as a New Language Certificate

Program: Certificate in Teaching English as a New Language Department of English and Linguistics

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

The Certificate in Teaching English as a New Language (TENL) is an 18-hour program intended primarily for students working toward an IPFW degree, especially education majors who wish to be trained in teaching English to non-native speakers. It will also serve those who wish to facilitate their employment abroad and those who have technical or business experience and wish to work with non-native speakers in professional settings. The required courses will familiarize students with the major theoretical foundations of teaching English as a second and foreign language and acquaint them with the relevant pedagogy. Students will acquire experience in teaching non-native speakers in appropriate classrooms. The certificate can stand alone as a separate credential or be integrated with the requirements of the B.A. program in English.

Program Restrictions

No course with a grade below C may be applied toward the certificate.

Program Requirements

Grammar Credits: 3

SPAN S428 may, in conjunction with other linguistics courses, meet the grammar requirement.

- ENG G302 - Structure of Modern English (TESOL) Cr. 3.

Methods Credits: 6

- LING L321 - Methods and Materials for TESOL I Cr. 3.
- LING L322 - Methods and Materials for TESOL II Cr. 3.

Language Acquisition Credits: 3

- ENG G432 - Second Language Acquisition Cr. 3.

Sociolinguistics Credits: 3

- LING L360 - Language in Society Cr. 3.

Practicum Credits: 3

- LING L470 - TENL Practicum Cr. 3.

Women's Studies Certificate

Program: Certificate School of Arts and Sciences

Classroom-Medical Building 272 ~ 260-481-6711

Women's studies is based on the premise that the study of women's experiences, concerns, social roles, and creativity is essential to our knowledge of humankind and society. Feminist scholarship and theory provide the knowledge and analytical tools necessary for a gender-balanced perspective on our world, both past and present. The Women's Studies Program affords you the opportunity to pursue feminist scholarship on women and gender through a variety of interdisciplinary courses.

See School of Arts and Sciences in Part 3 for further information.

The Women's Studies Certificate is designed for students majoring in academic programs outside the School of Arts and Sciences who are interested in a concentration of course work in women's studies. This program is also appropriate for community members who wish to augment or update past academic studies in a field that has relevance for today's

more diverse workforce and society. The required 21 credits are allocated as follows and must be completed with a grade of C or higher in each course:

Program Requirements

- One cross-listed course from the student's department, division, or school to be counted in the student's major as well as in the certificate, or any other WOST-prefixed or cross-listed course Credits: 3
- WOST-prefixed or cross-listed course in science or social science Credits: 3
- WOST-prefixed or cross-listed course in visual arts or humanities Credits: 3
- WOST-prefixed or cross-listed course Credits: 3
- WOST W210 - Introduction to Women's Studies Cr. 3.
- WOST W301 - International Perspectives on Women Cr. 3.
- WOST W400 - Topics in Women's Studies Cr. 3.
(the capstone course)

Total Credits: 21

Concentration

Accounting Area Concentration

The accounting concentration provides you with academic preparation for careers in auditing, corporate accounting and management services, governmental and nonprofit organizations, public accounting, and taxation. In addition, it equips you with a management tool for intelligent analysis, prediction, decision making, and control.

Upon successfully completing the B.S.B. and accounting concentration requirements, you may be eligible to sit for various professional certification examinations. Students interested in sitting for these examinations should check with the Department of Accounting and Finance (Neff 350) for further information.

You are encouraged to inquire about accounting internships (BUS A336) and co-op programs that may be available to you.

To earn the accounting area concentration, you must earn a grade of C or better in each of the following courses:

Program Requirements

- BUS A311 - Intermediate Accounting I Cr. 3.
- BUS A317 - Computer-Based Accounting Systems Cr. 3.
- BUS A325 - Cost Accounting Cr. 3.
- BUS A331 - Taxation of Business Entities Cr. 3.

Credits in four of the following Credits: 12

- BUS A441 - Special Topics In Assurance Services
- BUS A312 - Intermediate Accounting II Cr. 3.
- BUS A314 - Financial Statement Analysis Cr. 3.
- BUS A332 - Taxation of Individuals Cr. 3.
- BUS A422 - Advanced Financial Accounting Cr. 3.
- BUS A424 - Auditing Cr. 3.
- BUS A425 - Contemporary Accounting Theory Cr. 3.
- BUS A437 - Advanced Management Accounting Cr. 3.
- BUS L303 - Commercial Law II Cr. 3.

Note

- The department offers a certificate program in accounting for individuals who have completed a nonaccounting baccalaureate degree. See Accounting under Program Descriptions in the *Bulletin*.
- The department offers an optional program to accommodate Indiana's new requirement of 150 hours of education to obtain the CPA certificate. You may contact the department chair for further information.

Business Economics and Public Policy Area Concentration

The business economics and public policy concentration explores the economic environments in which businesses must operate, as well as the interrelationships among micro-and macroeconomic conditions, private-sector decision making, and governmental programs. You have opportunities to study economic problems and their alternative solutions. You may also study aspects of employment, inflation, international trade, and other economics subject areas.

If you wish to become a professional economist, you should prepare for graduate study by taking additional courses in mathematics, statistics, computer science, and/or research methods.

To earn the business economics and public policy area concentration, you must earn a grade of C or better in each of the following courses:

Program Requirements

- Credits in an approved 300/400 level economics course Credits: 3
- ECON E306 - Undergraduate Seminar in Economics Cr. 3
- ECON E321 - Intermediate Microeconomic Theory Cr. 3.
- ECON E322 - Intermediate Macroeconomic Theory Cr. 3.

Total Credits: 12

English and Communication Media Concentration

Program Requirements

- Credits in two 300- or 400-level writing courses (ENG W331, W350, W365, W398, W420, W462; JOUR J310) Credits: 6
- Credits in classics, comparative literature, English, film, or folklore Credits: 3
- JOUR J200 - Reporting, Writing and Editing I Cr. 3.

One of the following Credits: 3

- COM 250 - Mass Communication and Society Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.
- JOUR J110 - Foundations of Journalism and Mass Communication Cr. 3.

Note

In addition, you must complete a minor in one of the following outside fields: business studies, communication studies, journalism, international language and culture studies, professional writing, or fine arts. No more than 6 credits applied to the minor will apply to the major.

English Language Concentration

Program Requirements

- Credits in two additional courses in linguistics (including AUS 306), the English language, anthropological linguistics (including ANTH L200 and L400), or psycholinguistics (including AUS 181, 182, 309; PSY 426, 526) Credits: 6

One of the following Credits: 3

- LING L103 - Introduction to the Study of Language Cr. 3.
- LING L303 - Introduction to Linguistic Analysis Cr. 3.

One of the following Credits: 3

- ENG G301 - History of the English Language Cr. 3.
- ENG L304 - Old English Language and Literature Cr. 3.

One of the following Credits: 3

- COM 521 - Theories of Rhetoric Cr. 3.
- ENG W310 - Language and the Study of Writing Cr. 3.
- ENG W462 - Studies in Rhetoric and Composition Cr. 3.
- LING L360 - Language in Society Cr. 3.

Note

The department recommends the study of a second foreign language with a foreign-language minor.

English Literature Concentration

Program Requirements

- Credits in one additional course in American literature Credits: 3
- Credits in one additional course in British literature before 1700 Credits: 3
- Credits in one additional course in British literature after 1700 Credits: 3
- Credits in two additional courses in classics, comparative literature, English, film, or folklore Credits: 6

Note

If you plan to work toward advanced degrees (M.A., Ph.D.) in English, the department recommends additional period or major-author courses and study of a second foreign language. If you are a prelaw student, the department recommends upperlevel writing courses.

English Teacher Certification Concentration

(21 Credits Plus 32 Professional Education Credits)

To be eligible for teacher certification, you must earn a GPA of 2.00 or higher in each general education area. You should work closely with your advisor to ensure completion of general education requirements. You must also earn a cumulative GPA of 2.50 or higher in your major area and the professional

education courses. Each professional education course must be completed with a grade of C or better.

The School of Education requires that you first complete EDUA F300, EDUC W200/M101, and EDUC K201 before you are permitted to take professional education courses. Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

Program Requirements

- Credits in one additional course in language study Credits: 3
- Credits in one course in ethnic, minority, or non-Western literature Credits: 3
- Credits in one course in Western literature other than British or American Credits: 3
- Credits in one course in mass communication, including journalism and film Credits: 3
- Credits in one additional course, 300 level or higher, in writing, literature, language study, or mass communication Credits: 3
- ENG L391 - Literature for Young Adults Cr. 3.
- ENG W400 - Issues in Teaching Writing Cr. 3.

School of Education Requirements

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC M447 - Methods of Teaching High School English Cr. 3.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.

And Select:

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.

- EDUC P250 - General Educational Psychology Cr. 1-4.

And Select:

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

Middle School Certification (Recommended)

- EDUC M470 - Practicum Cr. 3-8.

Finance Area Concentration

The finance concentration is composed of courses that have been selected to familiarize you with the theory, instruments, and institutions of finance, and with a financial approach for structuring and analyzing management decisions. The study of finance provides a basis for careers in corporate financial management, as well as executive positions in commercial banking, savings and credit institutions, and the investment field.

To earn the finance area concentration, you must earn a grade of C or better in each of the following courses:

Program Requirements

- BUS F303 - Intermediate Finance Cr. 3.
- BUS F310 - Financial Statement Analysis - Finance Perspective Cr. 3.
- BUS F345 - Money/Banking/Capital Markets Cr. 3
- ECON E321 - Intermediate Microeconomic Theory Cr. 3.

Credits in four of the following: 12

- BUS A325 - Cost Accounting Cr. 3.
- BUS F420 - Equity and Fixed Income Investments Cr. 3.
- BUS F446 - Management of Commercial Banks and Other Financial Institutions Cr. 3.
- BUS F494 - International Finance Cr. 3.
- ECON E322 - Intermediate Macroeconomic Theory Cr. 3.

Total Credits: 24

Management and Administration Area Concentration

The management and administration concentration provides you with an opportunity to study a broad scope of business and economics subjects, as well as concepts and theories of managing complex business operations. The courses stress goal setting, planning, controlling, and problem solving in the context of major business firms in domestic and international environments.

To earn the management and administration area concentration, you must earn a grade of C or better in each of the following courses:

Program Requirements

- Credits in two additional 400-level management courses (These may include BUS M426 Sales Management) Credits: 6
- BUS D300 - International Business Administration Cr. 3.
- BUS K327 - Deterministic Models in Operations Research Cr. 3.
- BUS Z440 - Personnel: Human Resources Management Cr. 3.

Total Credits: 15

Marketing Area Concentration

The marketing area concentration is concerned with the movement of goods and services from the producer to the customer. It encompasses such topics as consumer behavior, product development, pricing, channels of distribution, promotion, marketing research, and effective management of corporate marketing operations.

To earn this area concentration, you must earn a grade of C or better in each of the following courses:

Program Requirements

- Credits in two additional 400-level marketing courses Credits: 6
- BUS D300 - International Business Administration Cr. 3.
- BUS M303 - Marketing Research Cr. 3.
- BUS M450 - Marketing Strategy and Policy Cr. 3.

Total Credits: 15

Writing Concentration

Program Requirements

- Credits in three W-prefixed courses in writing (ENG W203 or courses above the 200 level) Credits: 9
- Credits in one course in writing above the 300 level Credits: 3
- Credits in one additional course in classics, comparative literature, English, film, or folklore Credits: 3

Note

If you are interested in writing professionally, the department recommends a minor in business studies or journalism.

Dual Degree

Biology and in Medical Technology (4+1 Program) (Dual B.S.)

Program: B.S.
Department of Biology
School of Arts and Sciences

Science Building 330, 260-481-6305, www.ipfw.edu/bio

Under this plan you meet the requirements for the B.S. with a major in biology. Then, during your senior year, you seek admission to an approved hospital school of medical technology and complete one year of technical experience there the following year. Upon successful completion of the hospital- school year, you have the option of petitioning IPFW for a second baccalaureate degree (dual B.S. in biology and medical technology).

Endorsement

Computer Education Endorsement

In addition to the major in secondary education, students may earn a Computer Education Endorsement. This endorsement will have the same school setting coverage as the coverages listed on the license for the secondary degree.

Program Requirements

- CS 114 - Introduction to Visual Basic Cr. 3.
 - CS 160 - Introduction to Computer Science I Cr. 4.
 - CS 161 - Introduction to Computer Science II Cr. 4.
 - CS 260 - Data Structures Cr. 3.
 - EDUC W310 - Computer-Based Teaching Methods Cr. 3.
 - EDUC W410 - Practicum in Computer- Based Education Cr. 3-8.
- Credits: 3
- MA 153 - Algebra and Trigonometry I Cr. 3.

One of the following:

- CS 106 - Introduction to Computers Cr. 3.
- EDUC W210 - Introduction to Computer- Based Education Cr. 3.

Total Credits: 26

Middle School/Junior High Endorsement

In addition to the major in elementary education students may earn a middle school/junior high endorsement in language arts, mathematics, science, and/or social studies. This endorsement will have the same school setting coverage as the coverages listed on the license for the elementary degree plus middle school/junior high. Each endorsement requires 24 credits of content courses and a 4-credit middle school practicum. If completing more than one endorsement, you only need one practicum for all endorsements.

Language Arts (24 credits)

- British literature elective (300 level or higher) Credits: 3
- American literature elective (300 level or higher) Credits: 3

One of the following: Credits: 3

- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.

One of the following: Credits: 3

- ENG L202 - Literary Interpretation Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

One of the following: Credits: 3

- ENG G205 - Introduction to the English Language Cr. 3.
- ENG G206 - Introduction to the Study of Grammar Cr. 3.
- LING L103 - Introduction to the Study of Language Cr. 3.

One of the following: Credits: 3

- COM 250 - Mass Communication and Society Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.

One of the following: Credits: 3

- ENG L390 - Children's Literature Cr. 3.
- ENG L391 - Literature for Young Adults Cr. 3.

One of the following: Credits: 3

- EDUC E340 - Methods of Teaching Reading I Cr. 2-3.
Credits: 3
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

Mathematics (24 credits)

- Computer science elective Credits: 3
- Mathematics, computer science, or statistics electives Credits: 2–3
- MA 101 - Mathematics for Elementary Teachers I Cr. 3.
- MA 102 - Mathematics for Elementary Teachers II Cr. 3.
- MA 103 - Mathematics for Elementary Teachers III Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
(or waiver)
- STAT 125 - Communicating with Statistics Cr. 3.

One of the following Credits: 3-4

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

Science (24 credits)

- Science electives Credits: 0–2
- AST A100 - The Solar System Cr. 3.
- BIOL 100 - Introduction to the Biological World Cr. 3.
- BIOL 100L - Introduction to the Biological World Laboratory Cr. 1.
- CHM 111 - General Chemistry Cr. 3.
- GEOL G100 - General Geology Cr. 3-5.

Credits: 3

One of the following Credits: 3

- BIOL 349 - Environmental Science Cr. 3.
- GEOG G315 - Environmental Conservation Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.

One of the following Credits: 3-5

- PHYS 131 - Concepts in Physics I Cr. 3.
- PHYS 152 - Mechanics Cr. 5.

One of the following Credits: 3

- EDUC Q200 - Introduction to Scientific Inquiry Cr. 1-3.
Credits: 3
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.

Social Studies (24 credits)

- American history Credits: 3
- Sociology Credits: 3
- Political science Credits: 3
- Social studies electives Credits: 6
- PSY 120 - Elementary Psychology Cr. 3.

One of the following Credits: 3

- ECON E200 - Fundamentals of Economics Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.

One of the following Credits: 3

- FWAS H201 - Humanities I: The Ancient World Cr. 3.
- FWAS H202 - Humanities II: Foundations of the Modern Western World Cr. 3.

- HIST H232 - The World in the 20th Century Cr. 3.

Honors

Geology Honors Program

Program: Honors Program

Department of Geosciences

School of Arts and Sciences

Science Building 230 ~ 260-481-6249 ~ www.geosci.ipfw.edu

Students are encouraged to participate in the departmental honors program. To complete the program, you must maintain a GPA of 3.50 or higher in geology and a cumulative GPA of 3.30 or higher, and must complete at least 1 credit of GEOL G499 Honors Research in Geology leading to a thesis, the results of which must be publicly presented.

Philosophy Honors Program

A student may earn an honors B.A. degree in philosophy by achieving an overall GPA of 3.50 and a philosophy GPA of 3.50 or higher; conducting a two-semester (6 credit) research project; preparing a senior thesis based on the research project; and giving an oral presentation of the thesis research. The senior thesis committee must be established one semester before graduation.

Psychology Honors Program

A student may earn an honors degree in psychology by completing all of the requirements toward the B.A., achieving an overall GPA of 3.50 or higher, and conducting a two-semester independent research project. In the first semester of independent research the student is to complete three credits of PSY 498 or PSY 590. In the second semester, the student is to complete an honors thesis, PSY 499. As part of the honors thesis, an oral presentation to the department is required.

Minor

Anthropology Minor

Program: Minor

Department of Sociology and

Anthropology

School of Arts and Sciences

Kettler Hall G11A ~ 260-481-6272 ~ www.ipfw.edu/soca/anthhome.htm

Courses in anthropology provide an understanding of the nature of cultures and help you assess various explanations of human behavior; they also assist in the development of analytical and critical abilities. The curriculum is structured to include studies in the history and theory of anthropology, in four anthropological fields (ethnology, archaeology, bioanthropology, and linguistics), in at least two different world ethnographic areas, and in topical specializations. The program helps you prepare for graduate study, for teaching, and for careers in which the understanding of various cultures is an asset.

Although a minor is not required for the B.A. with a major in anthropology, an outside concentration is recommended. Fifteen credits in history, political science, psychology, or sociology support the concentration.

If you are pursuing a major other than anthropology, you may earn a minor in anthropology by completing the following credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW:

Program Requirements

Two of the following: Credits 6

- Additional anthropology credits Credits: 9
- ANTH B200 - Bioanthropology Cr. 3.
- ANTH E105 - Culture and Society Cr. 3.
- ANTH L200 - Language and Culture Cr. 3.
- ANTH P200 - Introduction to Prehistoric Archaeology Cr. 3.

Total Credits: 15

Applied Ethics Minor

Program: Minor
Department of Philosophy
School of Arts and Sciences

Neff Hall 130 ~ 260-481-6366

A minor in applied ethics; including human rights issues, complements a major in such fields as anthropology, biology, business, communication, English, health sciences, history, psychology, or sociology. The minor also enhances your preparation for graduate study in any of these fields or in law, medicine, natural science, philosophy, religion and theology, or social work.

To earn a minor in applied ethics, you must complete the following credits with a grade of C or better in each course; at least 8 of the credits must be earned as resident credit at IPFW:

Program Requirements

- Credits in an applied ethics course (e.g., PHIL 312, 326, 327, or 328)
Credits: 3
- Credits in another PHIL course at the 300 level or above Credits: 3
- PHIL 111 - Ethics Cr. 3.
- PHIL 150 - Principles of Logic Cr. 3.
- PHIL 480 - Practicum in Applied Ethics Cr. 3.

Total Credits: 15

Art History Minor

Program: Minor
Department of Visual Arts/Fine Arts
Program
School of Visual and Performing Arts

Visual Arts 117 ~ 260-481-6705 ~ www.ipfw.edu/vpa

You may earn a minor in art history by completing 18 credits selected from the following courses and earning a grade of C or better in each:

Program Requirements

- Credits in art history selected from the following Credits: 18
- FINA H111 - Ancient and Medieval Art Cr. 3.
- FINA H112 - Renaissance Through Modern Art Cr. 3.
- FINA H311 - Art of the Ancient World Cr. 3.
- FINA H312 - Art of the Medieval World Cr. 3.
- FINA H313 - Art of the Renaissance and Baroque Cr. 3.
- FINA H314 - Art of the Modern World Cr. 3.
- FINA H411 - 19th Century Art I Cr. 3.
- FINA H412 - 19th Century Art II Cr. 3.
- FINA H413 - 20th-Century Art: 1900-1924 Cr. 3.
- FINA H414 - 20th Century Art: 1925-Present Cr. 3.
- FINA H415 - Art of Pre-Columbian America Cr. 3.
- FINA H495 - Readings and Research in Art History Cr. 1-4

Total Credits: 18

Biology Minor

Program: Minor Department of Biology School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

If you are pursuing a major other than biology, you may earn a minor in biology by completing each of the following courses with a grade of C or better and earning at least 10 credits as resident credit at IPFW:

Program Requirements

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.

Total Credits: 18

Business Studies Minor

Program: Minor
SBMS Undergraduate Student Affairs
Center
Richard T. Doermer School of Business
and Management Sciences

Neff Hall 366 ~ 260-481-6472 ~ www.ipfw.edu/bms

The minor in business studies provides a fundamental background in the principles of business and economics. The minor is available to any IPFW student majoring in a nonbusiness bachelor's degree program. Your eligibility for this program is governed by the policies of the division/department in which you are enrolled. Please see your academic advisor for additional information.

To earn this minor, you must be regularly admitted to an IPFW bachelor's degree program that permits this option. All courses that compose this option have specific prerequisites. You must meet the prerequisites for each course and earn a grade of C or better in each course marked with an *. Some of these courses may be applicable to other requirements of your degree program. See your academic advisor for details.

Program Requirements

- BUS A201 - Principles of Financial Accounting Cr. 3.
*
- BUS A202 - Principles of Managerial Accounting Cr. 3.
*
- BUS K211 - Spreadsheets for Business Cr. 1.
*
- BUS K212 - Introduction to Database Management Cr. 1.
- BUS K213 - Internet Literacy for Business Cr. 1.
- BUS L200 - Elements of Business Law Cr. 1.
*
- BUS W204 - Social, Legal, and Ethical Implications of Business Decisions Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.
*
- ECON E202 - Introduction to Macroeconomics Cr. 3.
*
- ECON E270 - Introduction to Statistical Theory in Economics and Business I Cr. 3.
*
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
(or MA 165 or 223)

Two of the following: Credits 6

Upon completion of all above courses and after attaining junior class standing, you may select a maximum of two from the following:

- BUS D300 - International Business Administration Cr. 3.
*
- BUS F301 - Financial Management Cr. 3.
*
- BUS M301 - Marketing Management in a Competitive Environment Cr. 3.
*
- BUS P301 - Managing Operations in a Competitive Environment Cr. 3.
*
- BUS Z302 - Management of Organizations and People Cr. 3
*

Note

As a major in another bachelor's degree program, you are not eligible to enroll in any additional business or economics courses. No more than 25 percent of a nonbusiness student's baccalaureate curriculum may be in subjects available in the Richard T. Doerner School of Business and Management Sciences.

Total Credits: 31

Chemistry Minor

Program: Minor **Department of Chemistry** **School of Arts and Sciences**

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

If you are pursuing a major other than chemistry, you may earn a minor in chemistry by completing the following courses with a grade of C or better and earning at least 13–15 credits as resident credits at IPFW:

Program Requirements

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.

- CHM 218 - Introduction to Inorganic Chemistry Cr. 3.

Credits in one of the following Credits: 3–4

- CHM 371 - Physical Chemistry Cr. 3.
- CHM 383 - Physical Chemistry Cr. 4.

Credits in one of the following courses in analytical chemistry Credits: 4

- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 321 - Analytical Chemistry I Cr. 4.

One of the following sequences Credits: 8–10

- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.

or

- CHM 261 - Organic Chemistry Cr. 3.
- CHM 262 - Organic Chemistry Cr. 3.
- CHM 265 - Organic Chemistry Laboratory Cr. 2.
- CHM 266 - Organic Chemistry Laboratory Cr. 2.

Total Credits: 26-29

Communication Studies Minor

Program: Minor

Department of Communication

School of Arts and Sciences

Neff Hall 230 ~ 260-481-6825 ~ www.ipfw.edu/comm/

If you are pursuing a major other than interpersonal and organizational communication or media and public communication, you may earn this minor by completing the following requirements with a grade of C or better and earning at least 9 credits as resident credit at IPFW:

Program Requirements

- Credits in communication courses approved for communication B.A. majors
Credits: 6
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.
- COM 250 - Mass Communication and Society Cr. 3.
- COM 300 - Introduction to Communication Research Methods Cr. 3.
- COM 318 - Principles of Persuasion Cr. 3.

Total Credits: 18

Computer Science Minor

Program: Minor **Department of Computer Science** **College of Engineering, Technology, and** **Computer Science**

Engineering, Technology, and Computer Science Building 125 ~ 260-481-6803
~ www.cs.ipfw.edu

If you are pursuing a major other than computer science, you may earn a minor in computer science by completing the following courses. Only computer science courses in which you have earned a grade of C or better can be applied to the degree or used to satisfy prerequisites.

Program Requirements

- Credits in approved computer science courses at the 200 level or above
Credits: 6
- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- MA 175 - Introductory Discrete Mathematics Cr. 3.

Total Credits: 20

Creative Writing Minor

Program: Minor

Department of English and Linguistics

School of Arts and Sciences

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

This program is available to all IPFW students except those pursuing the communication media, teacher-certification, or writing concentration with a major in English.

You may earn the minor by completing the following 15 credits, including at least 8 credits earned as resident credit at IPFW, with a grade of C or better in each course.

Program Requirements

- One additional writing course, 300 level or above Credits: 3
- One additional course in classics, comparative literature, English, (except ENG W130, W131, W135, W233), film, folklore, or linguistics; or COM 436 or THTR 376 Credits: 3
- ENG W203 - Creative Writing Cr. 3.

One of the following: Credits: 3

- ENG W301 - Writing Fiction Cr. 3.
- ENG W303 - Writing Poetry Cr. 3.

One of the following Credits: 3

- ENG W401 - Advanced Fiction Writing Cr. 3.
- ENG W403 - Advanced Poetry Writing Cr. 3.

Total Credits: 15

Criminal Justice Minor

Program: Minor

Neff Hall 260 ~ 260-481-6351 ~ www.ipfw.edu/spea/

The minor in criminal justice offers you the opportunity to become more knowledgeable in the field of criminal justice and its policy implications. It is available to students who are enrolled in baccalaureate programs other than the Bachelor of Science in Public Affairs with a major in criminal justice. The minor can enhance the career opportunities for liberal arts and other majors.

Program Requirements

Each minor requires 15 credit hours of specified courses with a 2.00 grade-point average, and none of the courses may be taken by correspondence through the Division of Continuing Studies. SPEA majors may only double-count 6 of the required 15 credit hours in other SPEA major or minor requirements. Students may earn more than one minor from SPEA, but each minor must have at least 9 credit hours that are not satisfying other major or minor requirements.

- SPEA J101 - The American Criminal Justice System Cr. 3.
C– or better required.

One of the following: Credits: 3

- SPEA J201 - Theoretical Foundations of Criminal Justice Policies Cr. 3.
- SPEA J301 - Substantive Criminal Law Cr. 3.

Three of the following: Credits: 9

- SPEA J201 - Theoretical Foundations of Criminal Justice Policies Cr. 3.
- SPEA J301 - Substantive Criminal Law Cr. 3.
- SPEA J306 - The Criminal Courts Cr. 3.
- SPEA J321 - American Policing Cr. 3.
- SPEA J331 - Corrections Cr. 3.

Total Credits: 15

Dance Minor

Program: Minor
Department of Theatre
School of Visual and Performing Arts

Williams Theatre 128 ~ 260-481-6551 ~ www.ipfw.edu/vpa

You may earn a theatre dance minor by completing the following courses and earning a grade of C or better in each course.

Program Requirements

- THTR 117 - Jazz Dance I Cr. 2.
- THTR 121 - Tap I Cr. 2.
- THTR 125 - Ballet I Cr. 2.
- THTR 137 - Jazz Dance II Cr. 2
- THTR 145 - Ballet II Cr. 2.
- THTR 221 - Tap II Cr. 2.
- THTR 424 - Basic Choreography for the Theatre Cr. 3.

One of following Credits: 3

- THTR 105 - Dance History Cr. 3.
- THTR 355 - American Musical Theatre Cr. 3.

Total Credits: 18

Economics Minor

Program: Minor School of Arts and Sciences

Neff Hall 366B ~ 260-481-6483

Economics is the study of the rational allocation of scarce resources. The major seeks to develop those critical skills that help you understand and solve problems in a wide variety of circumstances. These analytical abilities are valuable in the business world and many professional disciplines such as law and social work.

This program is offered in close cooperation with the Department of Economics in the Richard T. Doerner School of Business and Management Sciences, which offers all economics courses required for the major.

If you are pursuing a major other than economics, you may earn a minor in economics by completing the following credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW:

Program Requirements

- Credits in two additional ECON courses at the 300–400 level: 6
- ECON E201 - Introduction to Microeconomics Cr. 3.
- ECON E202 - Introduction to Macroeconomics Cr. 3.

One of following Credits: 3

- ECON E321 - Intermediate Microeconomic Theory Cr. 3.
- ECON E322 - Intermediate Macroeconomic Theory Cr. 3.

Note

Programs can be designed to provide concentrations in several areas. A theory and quantitative concentration of 18 credits, including at least 9 resident credits, can be provided along with suitable study in mathematics to prepare students for graduate programs in economics and related disciplines.

Total Credits: 15

Electronics Minor

Program: Minor

Department of Electrical and Computer

Engineering Technology

College of Engineering, Technology, and

Computer Science

Engineering, Technology, and Computer Science Building 221 ~ 260-481-6338
 ~ www.ecet.ipfw.edu

The minor in electronics provides a fundamental technical background in analog and digital electronics to enable you to understand, analyze, and troubleshoot basic circuits. It also enables you to specialize and gain an in-depth knowledge of a particular area of electronics.

The ECET department also offers the Associate of Science and Bachelor of Science with a major in electrical engineering technology and a B.S. with a major in computer engineering technology. In addition, the department offers certificate programs in advanced microprocessors, computer-controlled systems, computer networking, electronic communications, and power electronics systems.

To earn a minor in electronics, you must complete the following courses and, unless you have already completed them, the 6 credits of mathematics prerequisites:

Fundamental Courses (12 credits)

- ECET 107 - Introduction to Circuit Analysis Cr. 4.
- ECET 111 - Digital Circuits Cr. 4.
- ECET 157 - Electronics Circuit Analysis Cr. 4.

Advanced Courses (8 credits in one of the three options)

Controls

- ECET 302 - Introduction to Control Systems Cr. 4.
- ECET 361 - Introduction to PLC and Pneumatic Systems Cr. 4.

Microprocessors

- ECET 205 - Introduction to Microprocessors Cr. 4.
- ECET 305 - Advanced Microprocessors Cr. 4.

Communications

- ECET 303 - Communications I Cr. 4.
- ECET 355 - Data Communications and Networking Cr. 4.

Total Credits: 20

English Minor

Program: Minor

Department of English and Linguistics

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

This program is available to all IPFW students who are not pursuing a major in English. You may earn a minor in English by completing the following 15

credits, including at least 8 credits earned as resident credit at IPFW, with a grade of C or better in each course:

Program Requirements

- Credits in American literature Credits: 3
- Credits in British literature before 1700 Credits: 3
- Credits in British literature after 1700 Credits: 3
- Additional credits in ENG and LING courses, W100–W299 excepted Credits: 6

Total Credits: 15

Film and Media Studies Minor

Program: Minor School of Arts and Sciences

Classroom-Medical Building 153 ~ 260-481-6160

The minor in film and media studies provides a coherent introduction to the basics of film/media literacy. The program is designed to develop a critical understanding of the historical, theoretical, aesthetic, cultural and institutional contexts of film, television, and other electronic and digital mass media.

Film/media aesthetics Credits: 3

One of following:

- COM 251 - Introduction to the Electronic Mass Media Cr. 3.
- FILM K101 - Introduction to Film Cr. 3.

Film/media history Credits: 3

One of following:

- COM 250 - Mass Communication and Society Cr. 3.
- FILM K201 - Survey of Film History Cr. 3.

Upper-level requirements Credits: 6

Two of the following:

- COM 338 - Documentary and Experimental Film and Video Cr. 3.
- FILM K302 - Genre Study in Film Cr. 3.
- FILM K390 - The Film and Society Cr. 3.

Free elective Credits: 3

One of following:

- COM 422 - Women, Men, and Media Cr. 3.
- COM 436 - Script Writing Cr. 3.
- COM 491 - Special Topics in Communication Cr. 1-3.
(with appropriate topic)
- FREN F460 - French Fiction in Film Cr. 3
- POLS Y200 - Contemporary Political Topics Cr. 1-6,

Note

Additional courses may be approved and will be announced in the program brochure and in the Schedule of Classes each semester. At least 8 credits must be completed as resident credit at IPFW.

Total Credits: 15

Fine Arts Minor

Program: Minor

**Department of Visual Arts/Fine Arts
Program**

School of Visual and Performing Arts

Visual Arts Building 117 ~ 260-481-6705 ~ www.ipfw.edu/vpa/

A minor in fine arts is designed for IPFW students outside the fine arts program. IPFW students can earn a minor in studio art by completing the following credits while maintaining a 2.0 GPA within the fine arts classes:

Required Classes Credits: 6

- Additional fine arts credits: 9
- Select three additional classes within the fine arts program.
- At least two classes must be at the 200 level or above.
- Two FINA art history classes can be used as part of the additional classes.
- FINA P121 - Drawing Fundamentals I-II Cr. 3.
- FINA P151 - Design Fundamentals I-II Cr. 3.

Total Credits: 15

Folklore Minor

Program: Minor

Department of English and Linguistics School of Arts and Sciences

Classroom-Medical Building 145 ~ 260-481-6841

The minor in folklore familiarizes you with the international body of folklore as well as the theories, techniques, and history of folkloristics. The folklore minor is particularly appropriate for degree programs in anthropology, education, English, history, sociology, and other humanities and social sciences.

This program is available to all IPFW students except those pursuing the teacher-certification concentration with a major in English.

To earn a minor in folklore, you must complete the following 15 credits, including at least 8 credits earned as resident credit at IPFW, with a grade of C or better in each course:

Program Requirements

- Credits in additional courses, including at least two courses above the 200 level in folklore or in folklore-related courses in anthropology, classics, or other disciplines approved by the department Credits: 9

One of following Credits: 3

- FOLK F101 - Introduction to Folklore Cr. 3.

- FOLK F220 - Introduction to American Folklore Cr. 3.

One of following Credits: 3

- ANTH E462 - Anthropological Folklore Cr. 3.
- FOLK F251 - Folklore Methods and Theories Cr. 3.

Total Credits: 15

French Minor

Program: Minor Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs

If you are pursuing a major other than French, you may earn a minor in French by completing the following 14 credits, with a grade of C or better in each course.

Study Abroad Both majors and nonmajors are encouraged to study abroad. For those who wish to study French, Indiana University administers and cosponsors an academic-year program in Aix-en-Provence; semester programs in Paris, Rennes, and Rouen; and summer programs in Paris and Quebec.

Program Requirements

- Credits in 300-level French language courses Credits: 6
- Credits in 300-level French literature courses Credits: 6
- FREN F213 - Second-Year French Composition Cr. 2.
(normally taken concurrently with F203–F204)

Total Credits: 14

French Teaching Minor

Program: Teaching Minor
**Department of International Language
and Culture Studies**
School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs

If you are already licensed or qualified to be licensed in another area, you may earn a French teaching minor by completing the following 34 credits with a grade of C or better in each course.

Program Requirements

- Credits in 300-level French language courses Credits: 12
- Credits in 300-level French literature courses Credits: 3
- Credits in 400-level French and francophone civilization courses (F463 or F464) Credits: 3
- FREN F111 - Elementary French I Cr. 4.
- FREN F112 - Elementary French II Cr. 4.
- FREN F203 - Second-Year French I Cr. 3.
- FREN F204 - Second-Year French II Cr. 3.
- FREN F213 - Second-Year French Composition Cr. 2.
(normally taken concurrently with F203–F204)

Total Credits: 34

Geology Minor

Program: Minor
Department of Geosciences
School of Arts and Sciences

Science Building 230 ~ 260-481-6249 ~ www.geosci.ipfw.edu

If you are pursuing a major other than geology, you may earn a minor in geology by completing the following courses with a grade of C or better, with at least 11 resident credits taken at IPFW.

Program Requirements

- Two courses from GEOL/GEOG, 200 level or higher Credits: 6
- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G211 - Introduction to Paleobiology Cr. 3.

One of following Credits: 3-4

- GEOL G100 - General Geology Cr. 3-5.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL L100 - General Geology Laboratory Cr. 1-2.

One of following Credits: 3

- GEOG G237 - Cartography and Geographic Information Cr. 3.
- GEOL G323 - Structural Geology Cr. 3.

One of following Credits: 3

- GEOL G300 - Environmental and Urban Geology Cr. 3.
- GEOL G334 - Principles of Sedimentology and Stratigraphy Cr. 3.

Total Credits: 18-19

German Minor

Program: Minor **Department of International Language** **and Culture Studies** **School of Arts and Sciences**

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

If you are pursuing a major other than German, you may earn a German minor by completing the following 15 credits, with a grade of C or better in each course:

Program Requirements

- Additional German credits at the 300–400 level Credits: 9
- GER G318 - German Language Skills I Cr. 3-5.

Credits: 3

One of following Credits: 3

- GER G362 - Deutsche Landeskunde Cr. 3.
- GER G363 - Deutsche Kulturgeschichte Cr. 3.

Total Credits: 15

German Teaching Minor

Program: Teaching Minor Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

If you are already licensed or qualified to be licensed in another area, you may earn a German teaching minor by completing the following 32 credits with a grade of C or better in each course.

Program Requirements

- Additional German credits at the 300-400 level Credits: 9
- GER G111 - Elementary German I Cr. 4.
- GER G112 - Elementary German II Cr. 4.
- GER G203 - Second-Year German I Cr. 3.
- GER G204 - Second-Year German II Cr. 3.
- GER G318 - German Language Skills I Cr. 3-5.
Credits: 3
- GER G325 - German for Teachers Cr. 3.

One of following Credits: 3

- GER G362 - Deutsche Landeskunde Cr. 3.
- GER G363 - Deutsche Kulturgeschichte Cr. 3.

Total Credits: 32

History Minor

Program: Minor

Department of History

School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/hist

If you are pursuing a major other than history, you may earn a minor in history by completing the following credits with a grade of C or better in each course, including at least 9 credits as resident credit at IPFW:

Program Requirements

- Credits in 100-level courses (H105, H106, H113, H114, or equivalent honors courses) Credits: 9
- Credits above the 100 level, including courses in at least two of the following three areas: United States, Western Europe, and Other World areas Credits: 9

Total Credits: 18

Note

Included in the above credits must be at least one course dealing primarily with the period before 1800 (HIST A301, A302, A310, B351, B352, C388, C390, C393, E331, F341, H113, H201, H222, and occasional special offerings). HIST H232 may not be used to fulfill the Western European or Other World area requirements, but may be used for additional credits toward the major or minor.

Information Systems Minor

Program: Minor

Department of Computer Science

College of Engineering, Technology, and Computer Science

Kettler Hall 252 ~ 260-481-6803 ~ www.cs.ipfw.edu/

To earn a minor in information systems, you must complete the following courses:

Major Requirements

- CS 160 - Introduction to Computer Science I Cr. 4.
- CS 161 - Introduction to Computer Science II Cr. 4.
- CS 260 - Data Structures Cr. 3.
- CS 274 - Data Communications Cr. 3.
- CS 366 - Structured Analysis Techniques Cr. 3.

One of the following Credits: 3

- CS 114 - Introduction to Visual Basic Cr. 3.
- CS 203 - Advanced Visual Basic Cr. 3.

Total Credits: 20

Journalism Minor

Program: Minor School of Arts and Sciences

Neff Hall 343 ~ 260-481-6685 ~ www.ipfw.edu/jour/

The IPFW Journalism Program offers two minors. A journalism minor provides underpinning for those interested in various media; the public relations minor described later in this section is more particularly defined and will appeal to those wishing to concentrate in corporate communications or advertising/public relations.

These minors are especially appropriate for media and public communication or English communication media majors. Those with a desire to write or report in some content area should consider a major in the area itself. Reporters need a content area such as political science or history; basic science students will discover that science writing is an especially valuable and challenging career goal.

Program Requirements

To earn the journalism minor, you must complete each course with a grade of C or better and must complete at least 8 credits as resident credit at IPFW.

One of following Credits: 3

- COM 250 - Mass Communication and Society Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.
- JOUR J110 - Foundations of Journalism and Mass Communication Cr. 3.

Two of the following Credits: 6

- JOUR J200 - Reporting, Writing and Editing I Cr. 3.
- JOUR J20I - Reporting, Writing, and Editing II Cr. 3.
- JOUR J310 - Editorial Practices Cr. 3.

Two of the following Credits: 6

- COM 334 - Journalism for the Electronic Mass Media Cr. 3.
- JOUR J210 - Visual Communication Cr. 3.
- JOUR J310 - Editorial Practices Cr. 3.
- JOUR J390 - Corporate Publications Cr. 1-3.

One of following Credits: 3

- COM 432 - Practicum in Television Cr. 2.
- COM 490 - Internship in Communication Cr. 1-6.
- ENG W398 - Internship in Writing Cr. 1-3.
- JOUR J492 - Media Internship Cr. 1-3.

Total Credits: 18

Labor Studies Minor

Division of Labor Studies Program Offered: Minor

Kettler Hall G28 ~ 260-481-6831 ~ www.labor.iu.edu

If you are pursuing a major other than labor studies, you may earn a minor in labor studies by completing 15 credits, including 6 credits from the Labor Studies Core and 9 additional credits in labor studies. The additional 9 credits may come from other core courses, more-advanced courses, topics courses, internships, and directed labor studies.

Linguistics Minor

Program: Minor

Department of English and Linguistics School of Arts and Sciences

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

Linguistics is the study of the characteristics of language. Accordingly, linguistics courses are valuable preparation for the study of such subjects as anthropology, communication, education, English, international languages, psychology, sociology, and speech and audiology.

This program is available to all IPFW students except those pursuing the language, teacher-certification, or communication media concentration with a major in English.

To earn a minor in linguistics, you must complete the following 15 credits, including at least 8 credits earned as resident credit at IPFW, with a grade of C or better in each course:

Program Requirements

- Any LING course numbered 300 or above except LING L303 Credits: 3

One of the following Credits: 3

- ANTH L200 - Language and Culture Cr. 3.
- ANTH L400 - Seminar in the Ethnography of Communication Cr. 3.
- LING L360 - Language in Society Cr. 3.

One of the following Credits: 3

- LING L103 - Introduction to the Study of Language Cr. 3.
- LING L303 - Introduction to Linguistic Analysis Cr. 3.

One of the following Credits: 3

Or, one course in the structure or linguistics of an international language.

- AUS 181 - First Course in American Sign Language Cr. 3.
- ENG G205 - Introduction to the English Language Cr. 3.
- ENG G206 - Introduction to the Study of Grammar Cr. 3.
- LING L490 - Linguistic Structures Cr. 3.

One of the following Credits: 3

Or one course above the 200 level in linguistics or a related discipline approved by the department.

- AUS 306 - Introduction to Phonetics Cr. 3.
- AUS 309 - Language Development Cr. 3.
- PHIL 450 - Symbolic Logic Cr. 3.
- PSY 426 - Language Development Cr. 3.
- PSY 526 - Psycholinguistics Cr. 3.

Total Credits: 15

Math and Physics Minor - Computer Engineering

Computer engineering students have enough math courses to qualify for a minor in mathematics. No additional math courses are needed. To be officially awarded a minor in math, a form must be filled and approved by the math department prior to graduation.

If you take PHYS 322 and PHYS 342, which are accepted as technical electives in all the engineering programs, then you will earn a minor in physics. Note that PHYS 342 can also be taken as an Area VI General Education course. To be officially awarded a minor in physics, a form must be filled and approved by the physics department prior to graduation.

Math and Physics Minor - Electrical Engineering

Electrical engineering students have enough math courses to qualify for a minor in mathematics. No additional math courses are needed. To be officially awarded a minor in math, a form must be filled and approved by the math department prior to graduation.

If you take PHYS 322 and PHYS 342, which are accepted as technical electives in all the engineering programs, then you will earn a minor in physics. Note that PHYS 342 can also be taken as an Area VI General Education course. To be officially awarded a minor in physics, a form must be filled and approved by the physics department prior to graduation.

Math and Physics Minor - Mechanical Engineering

Mechanical engineering students who take ME 373 Numerical Methods in Engineering, have enough math courses to qualify for a minor in mathematics. No additional math courses are needed. To be officially awarded a minor in math, a form must be filled and approved by the math department prior to graduation.

If you take PHYS 322 and PHYS 342, which are accepted as technical electives in all the engineering programs, then you will earn a minor in physics. Note that PHYS 342 can also be taken as an Area VI General Education course. To be officially awarded a minor in physics, a form must be filled and approved by the physics department prior to graduation.

Mathematics Minor

Program Offered: Minor Department of Mathematical Sciences School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

You may earn a minor in mathematics by completing at least six courses in mathematics and statistics. Your selection of courses should be appropriate for your major, and your program for a minor must be approved by the department's program review committee. Two calculus courses must be included. College algebra or trigonometry courses are excluded; one computer science course may be substituted for a mathematics or statistics course. You must have a grade of C or better in all courses included in your minor, and at least half of the credits must be earned as resident credit at IPFW.

Sample Programs for a Minor in Mathematics

Business and Management Majors

Computer Programming:

- CS 114 - Introduction to Visual Basic Cr. 3.
or
- CS 160 - Introduction to Computer Science I Cr. 4.

Calculus:

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
and

- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- or
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- and
- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.

Finite or Discrete Math:

- MA 175 - Introductory Discrete Mathematics Cr. 3.
- or
- MA 213 - Finite Mathematics I Cr. 3.
- or
- MA 275 - Intermediate Discrete Math Cr. 3.

Modeling:

- MA 314 - Introduction to Mathematical Modeling Cr. 3.

Statistics:

- ECON E270 - Introduction to Statistical Theory in Economics and Business I Cr. 3.
- or
- STAT 511 - Statistical Methods Cr. 3.

Computer Science Majors

Numerical Analysis:

- CS 384 - Numerical Analysis Cr. 3.

Calculus:

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- and
- MA 166 - Analytic Geometry and Calculus II Cr. 4.

Discrete Mathematics:

- MA 175 - Introductory Discrete Mathematics Cr. 3.

or

- MA 275 - Intermediate Discrete Math Cr. 3.

Linear Algebra:

- MA 351 - Elementary Linear Algebra Cr. 3.

Statistics:

- STAT 511 - Statistical Methods Cr. 3.
- or
- STAT 516 - Basic Probability and Applications Cr. 3.

Liberal Arts Majors

Computer Programming:

- CS 114 - Introduction to Visual Basic Cr. 3.
- or
- CS 160 - Introduction to Computer Science I Cr. 4.

Calculus:

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- and
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- or
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- and
- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.

Finite Mathematics:

- MA 213 - Finite Mathematics I Cr. 3.

Modeling:

- MA 314 - Introduction to Mathematical Modeling Cr. 3.

Statistics:

- STAT 125 - Communicating with Statistics Cr. 3.

Life Sciences Majors

Computer Programming:

- CS 114 - Introduction to Visual Basic Cr. 3.
or
- CS 160 - Introduction to Computer Science I Cr. 4.

Calculus:

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
and
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
or
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
and
- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.

Finite Mathematics:

- MA 213 - Finite Mathematics I Cr. 3.

Modeling:

- MA 314 - Introduction to Mathematical Modeling Cr. 3.

Statistics:

- STAT 240 - Statistical Methods for Biology Cr. 3.
- STAT 340 - Elementary Statistical Methods II Cr. 3.

Physical Sciences and Engineering Majors

Calculus:

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
and
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
and
- MA 261 - Multivariate Calculus Cr. 4.

Differential Equations:

- MA 363 - Differential Equations Cr. 3.

Advanced Calculus:

- MA 510 - Vector Calculus Cr. 3.

Complex Analysis or Linear Algebra:

- MA 351 - Elementary Linear Algebra Cr. 3.
or
- MA 511 - Linear Algebra with Applications Cr. 3.
or
- MA 525 - Introduction to Complex Analysis Cr. 3.

Technology Majors

Computer Programming:

- CS 114 - Introduction to Visual Basic Cr. 3.
or
- CS 160 - Introduction to Computer Science I Cr. 4.

Calculus:

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
and
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
or
- MA 227 - Calculus for Technology I Cr. 4.
and
- MA 228 - Calculus for Technology II Cr. 3.

Discrete or Finite Math:

- MA 175 - Introductory Discrete Mathematics Cr. 3.
or
- MA 213 - Finite Mathematics I Cr. 3.
or
- MA 275 - Intermediate Discrete Math Cr. 3.

Mathematics Elective:

- MA 321 - Applied Differential Equations Cr. 3.
or
- MA 351 - Elementary Linear Algebra Cr. 3.

Statistics:

- STAT 301 - Elementary Statistical Methods I Cr. 3.
or
- STAT 511 - Statistical Methods Cr. 3.

Media Production Minor

Program: Minor **Department of Communication** **School of Arts and Sciences**

Neff Hall 230 ~ 260-481-6825 ~ www.ipfw.edu/comm/

This program is available to all IPFW students, including students with communication majors. To earn a minor in media production, you must complete at least 18 credits with a grade of C or better. You must also complete any prerequisites for the courses that are chosen and complete at least 9 credits as resident credit at IPFW.

Program Requirements

- COM 251 - Introduction to the Electronic Mass Media Cr. 3.

Credits from among the following: Credits: 15

- COM 490 Internship in Communication

- COM 331 - Audio Production Cr. 3.
- COM 332 - Television Studio Production Cr. 3.
- COM 333 - Film Production Cr. 3.
- COM 334 - Journalism for the Electronic Mass Media Cr. 3.
- COM 337 - Video Production/Editing Cr. 3.
- COM 338 - Documentary and Experimental Film and Video Cr. 3.
- COM 431 - Practicum in Radio Cr. 2.
(2 credits, may be repeated once)
- COM 432 - Practicum in Television Cr. 2.
(2 credits, may be repeated once)
- COM 436 - Script Writing Cr. 3.
- COM 537 - Educational/Instructional Television Cr. 3.
- FILM K101 - Introduction to Film Cr. 3.
- JOUR J200 - Reporting, Writing and Editing I Cr. 3.
- JOUR J210 - Visual Communication Cr. 3.
- PHYS 105 - Sound and Music Cr. 3.
- PHYS 125 - Light and Color Cr. 3.
- THTR 158 - Stagecraft Cr. 3.
- VCD N274 - Digital Imaging Cr. 3.
- VCD P151 - Design Fundamentals I Cr. 3.
- VCD P152 - Design Fundamentals II Cr. 3.

Total Credits: 18

Music Minor

Program: Minor

Department of Music

School of Visual and Performing Arts

Classroom-Medical Building G23 ~ 260-481-6714 ~ www.ipfw.edu/vpa

A minor in music is designed for students who wish to enhance an interest in music while majoring in another area. To earn this minor, you must complete the courses listed below and earn a grade of C or better in each. Six credits must be at the 200 level or higher.

Program Requirements

19 credit hours selected from the following:

Music Theory (8 credits)

- MUS T113 - Music Theory I Cr. 3.
- MUS T114 - Music Theory II Cr. 3.
- MUS T115 - Sightsinging and Aural Perception I Cr. 1.
- MUS T116 - Sightsinging and Aural Perception II Cr. 1.

Music History and Literature (8 credits)

- MUS M201 - Music Literature I Cr. 2.
- MUS M202 - Music Literature II Cr. 2.
- or
- MUS N101 - Music for the Listener - Honors Cr. 3.

Applied Study and/or Ensemble Credits: 4

Placement in ensembles and/or applied studios by audition only.

Electives Credits: 3-4

Students may work with an advisor in the Department of Music to select electives to fulfill the remaining credit hours.

Concert Attendance Credits: 0

Two semesters required

- MUS X095 - Performance Class Cr. 0.

Organizational Leadership and Supervision Minor

Program: Minor Division of Organizational Leadership and Supervision

Neff Hall 288 ~ 260-481-6420 ~ www.ipfw.edu/ols

If you are pursuing a major other than organizational leadership and supervision, you may earn a minor in organizational leadership and supervision by completing the following courses with a grade of C or better in each course:

Program Requirements

- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 268 - Elements of Law Cr. 3.
- OLS 274 - Applied Leadership Cr. 3.
- OLS 375 - Training Methods Cr. 3.
- OLS 376 - Human Resources Issues Cr. 3.

Additional Credits in OLS: 3

Total Credits: 18

Philosophy Minor

Program: Minor Department of Philosophy School of Arts and Sciences

Neff Hall 130 ~ 260-481-6366

If you are pursuing a major other than philosophy, you may earn a minor in philosophy by completing the following credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW. Substitutions for these courses may be made with the approval of the department.

Program Requirements

- PHIL 303 - History of Modern Philosophy Cr. 3.

One of the following: Credits: 3

- PHIL 110 - Introduction to Philosophy Cr. 3.
- PHIL 111 - Ethics Cr. 3.

One of the following: Credits: 3

- PHIL 120 - Critical Thinking Cr. 3.
- PHIL 150 - Principles of Logic Cr. 3.

One of the following: Credits: 3

- PHIL 301 - History of Ancient Philosophy Cr. 3.
- PHIL 302 - History of Medieval Philosophy Cr. 3.
- PHIL 304 - 19th Century Philosophy Cr. 3.

Credits in a philosophy elective at the 400 level or above Credits: 3

(PHIL 493 and PHIL 590 count toward the minor only with the approval of the department.)

Total Credits: 15

Physics Minor

Program: Minor

Department of Physics

School of Arts and Sciences

Kettler Hall 126B ~ 260-481-6306 ~ www.ipfw.edu/physics/

If you are pursuing a major other than physics, you may earn a minor in physics by completing the following credits with a grade of C or better in each course and earning at least 9 credits as resident credit at IPFW:

Program Requirements

- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.

Credits in two of the following: Credits: 6-8

- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 330 - Intermediate Electricity and Magnetism Cr. 3.
- PHYS 331 - Electricity and Magnetism II Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 361 - Electronics for Scientists Cr. 4.

Total Credits: 16-18

Political Science Minor

Program: Minor

Department of Political Science

School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/pols

Program Requirements

If you are pursuing a major other than political science, you may earn a minor in political science by completing a minimum of 18 credits, including at least 9 resident credits, in the discipline with a grade of C or better in each course. A maximum of 6 credits may be earned in 100-level courses, and a minimum of 6 credits in courses at or above the 300 level (not including Y398 or Y482). Neither Y398 (Internship in Urban Institutions) nor Y482 (Practicum) may count for more than 6 of the 18 credits; these two courses together may not count for more than 9 of the 18 credits.

Professional Writing Minor

Program: Minor

Department of English and Linguistics

School of Arts and Sciences

Classroom-Medical Building 145 ~ 260-481-6841

This program is available to all IPFW students except those pursuing the language, teacher-certification, or writing concentration with a major in English.

Program Requirements

You may earn a minor in professional writing by completing the following 15 credits, including at least 8 credits completed as resident credit at IPFW, with a grade of C or better in each course.

Preparatory course work in writing (minimum of 3 credits)

One of the following: Credits: 3

- ENG W232 - Introduction to Business Writing Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- ENG W234 - Technical Report Writing Cr. 3.
- ENG W331 - Business and Administrative Writing Cr. 3.

Advanced course work in professional writing

(minimum of 9 credits)

- ENG W365 - Theories and Practices of Editing Cr. 3.
- ENG W367 - Writing for Multiple Media Cr. 3.
- ENG W398 - Internship in Writing Cr. 1-3.
- ENG W420 - Argumentative Writing Cr. 3.
- ENG W421 - Technical Writing Projects Cr. 1-3.
- ENG W425 - Research Methods for Professional Writers Cr. 3.
- ENG W462 - Studies in Rhetoric and Composition Cr. 3.

(Only topics specifically related to professional writing)

Elective (minimum of 3 credits) Credits: 3

Any course from the above two areas not used to fulfill the area distribution requirements. Any other course at the 200 level and above which supports your professional interest in writing. Examples include but are not limited to the following courses:

- **VCD 254** Principles of Graphic Design
This course must be approved by the English department chair.
- COM 251 - Introduction to the Electronic Mass Media Cr. 3.
- COM 324 - Introduction to Organizational Communication Cr. 3.
- ENG W350 - Advanced Expository Writing Cr. 3.
- ENG W405 - Writing Prose - Nonfiction Cr. 2-3.
- JOUR J200 - Reporting, Writing and Editing I Cr. 3.
- JOUR J310 - Editorial Practices Cr. 3.

Total Credits: 15

Psychology Minor

Program: Minor

Department of Psychology

School of Arts and Sciences

Neff Hall 388 ~ 260-481-6403 ~ www.ipfw.edu/psyc

If you are pursuing a major other than psychology, you may earn a minor in psychology by completing the following 15 credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW:

Program Requirements

- PSY 120 - Elementary Psychology Cr. 3.

One of the following: Credits: 3

- PSY 314 - Introduction to Learning Cr. 3.
- PSY 329 - Psychobiology II: Principles of Psychobiological Psychology Cr. 3.
- PSY 416 - Cognitive Psychology Cr. 3.

One of the following: Credits: 3

- PSY 235 - Child Psychology Cr. 3.
- PSY 240 - Introduction to Social Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.

One of the following: Credits: 3

- PSY 350 - Abnormal Psychology Cr. 3.
- PSY 420 - Introduction to Personality Theory Cr. 3.

Additional credits in a psychology course
numbered 200 or above Credits: 3

Total Credits: 15

Public Affairs Minor

Program: Minor

Neff Hall 260 ~ 260-481-6351 ~ www.ipfw.edu/spea/

The minor in public affairs offers you the opportunity to become more knowledgeable in the field of public administration and the policy implications of the public sector. It is available to students who are enrolled in baccalaureate programs and can enhance career opportunities for liberal arts and other majors.

Program Requirements

Each minor requires 15 hours of specified courses with a 2.00 grade-point average, and none of the courses may be taken by correspondence through the Division of Continuing Studies.

SPEA majors may double-count only 6 of the required 15 credit hours in other SPEA major or minor requirements. Students may earn more than one minor from SPEA, but each minor must have at least 9 hours that are not satisfying other major or minor requirements.

- SPEA V170 - Introduction to Public Affairs Cr. 3.
C- or better required

One of the following: Credits: 3

- SPEA E162 - Environment and People Cr. 3.
- SPEA E272 - Introduction to Environmental Sciences Cr. 3.

Three of the following: Credits: 9

- SPEA E272 - Introduction to Environmental Sciences Cr. 3.
- SPEA E400 - Topics in Environmental Studies Cr. 3.
(may be repeated)
- SPEA V263 - Public Management Cr. 3.
- SPEA V366 - Managing Behavior in Public Organizations Cr. 3.
- SPEA V373 - Human Resources Management in the Public Sector Cr. 3.
- SPEA V376 - Law and Public Policy Cr. 3.
- SPEA V450 - Contemporary Issues in Public Affairs Cr. 1-3.
(may be repeated)

Total Credits: 15

Public Relations Minor

Program: Minor

School of Arts and Sciences

Neff Hall 343 ~ 260-481-6685 ~ www.ipfw.edu/jour/

The IPFW Journalism Program offers two minors that may be completed as part of a bachelor's program at IPFW. The publicrelations minor will appeal to those wishing to concentrate in the corporate communications or advertising/public relations industries; the journalism minor described earlier in this part provides basic underpinning for those interested in various media.

These minors are especially appropriate for media and public communication or English communication media majors.

Program Requirements

To earn the minor, you must complete each course with a grade of C or better, with at least 11 of the credits taken as resident credit at IPFW.

- JOUR J200 - Reporting, Writing and Editing I Cr. 3.

Two of the following: Credits: 6

- COM 251 - Introduction to the Electronic Mass Media Cr. 3.
- JOUR J210 - Visual Communication Cr. 3.
- JOUR J310 - Editorial Practices Cr. 3.
- JOUR J315 - Feature Writing Cr. 3.

Two of the following: Credits: 6

- COM 253 - Introduction to Public Relations Cr. 3.
- COM 332 - Television Studio Production Cr. 3.
- JOUR J280 - Sophomore Seminar in Journalism Cr. 3.
- JOUR J390 - Corporate Publications Cr. 1-3.
- JOUR J425 - Supervision of School Publications Cr. 3.
- JOUR J427 - Public Relations in a Democratic Society Cr. 3.

One of the following: Credits: 3

- COM 490 - Internship in Communication Cr. 1-6.
- ENG W398 - Internship in Writing Cr. 1-3.
- JOUR J492 - Media Internship Cr. 1-3.

Total Credits: 18

Religious Studies Minor

Program: Minor Department of Philosophy School of Arts and Sciences

Neff Hall 130 ~ 260-481-6366

Religious Studies is an interdisciplinary program housed in the department of philosophy. Students may earn a minor in religious studies by completing the following credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW. Substitutions for these courses may be made with the approval of the department.

Program Requirements

- One course at the 300 level or above with significant emphasis on the study of religion. Credits: 3
- Student must get course approval from the program administrator.
- PHIL 112 - Religion and Culture Cr. 3.
- PHIL 206 - Philosophy of Religion Cr. 3.
- PHIL 330 - Religions of the East Cr. 3.
- PHIL 331 - Religions of the West Cr. 3.

Total Credits: 15

Sociology Minor

Program: Minor Department of Sociology and Anthropology School of Arts and Sciences

*Classroom-Medical Building 241 ~ 260-481-6842 ~
www.ipfw.edu/soca/soc.htm*

Program Requirements

If you are pursuing a major other than sociology, you may earn a minor in sociology by completing 15 credits with a grade of C or better in each course, including at least 8 credits as resident credit at IPFW, a minimum of 9 credits at the 300 level or above, and no more than 3 credits of SOC S495 or directed study.

Spanish Minor

Program: Minor Department of International Language and Culture Studies School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

If you are pursuing a major other than Spanish, you may earn a minor in Spanish by completing the following credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW:

Program Requirements

- Additional 300- or 400-level Spanish civilization, language, or literature course Credits: 3
- SPAN S210 - Second-Year Spanish Composition Cr. 2-3.
(normally taken concurrently with S204)
- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.

One of the following 300-level literature courses
Credits: 3

- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.

Total Credits: 14-15

Spanish Teaching Minor

Program: Teaching Minor
**Department of International Language
and Culture Studies**
School of Arts and Sciences

Classroom-Medical Building 267 ~ 260-481-6836 ~ www.ipfw.edu/ilcs/

If you are already licensed or qualified to be licensed in another area, you may earn a Spanish teaching minor by completing the following 37–38 credits with a grade of C or better in each course.

Program Requirements

- SPAN S275 - *Hispanic Culture and Conversation* Credits: 3
- SPAN S111 - Elementary Spanish I Cr. 4.
- SPAN S112 - Elementary Spanish II Cr. 4.
- SPAN S203 - Second-Year Spanish I Cr. 3.
- SPAN S204 - Second-Year Spanish II Cr. 3.
- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.
- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.
- SPAN S317 - Spanish Conversation and Diction Cr. 3.
- SPAN S488 - Spanish for Teachers Cr. 3.

One of the following culture/civilization courses:
Credits: 3

- SPAN S413 - *Hispanic Culture in the U.S.*
- SPAN S411 - Spain: The Cultural Context Cr. 3.
- SPAN S412 - Latin-American Culture and Civilization Cr. 3.

Total Credits: 37-38

Theatre Minor

Program: Minor
Department of Theatre
School of Visual and Performing Arts

Program Requirements

You may earn a theatre minor by completing the following courses and earning a grade of C or better in each:

- THTR 134 - Fundamentals of Performance Cr. 3.
- THTR 138 - Acting I Cr. 3.
- THTR 168 - Theatre Production I Cr. 1-2.
- THTR 201 - Theatre Appreciation Cr. 3.
- THTR 261 - Introduction to Theatrical Design Cr. 3.
- THTR 284 - Textual Analysis Cr. 3.
- THTR 368 - Theatre Production II Cr. 1-2.

One of the following: Credits: 3

- THTR 470 - Theatre and Society I Cr. 3.
- THTR 471 - Theatre and Society II Cr. 3.

Theatre electives Credits: 3

Total Credits: 24

Women's Studies Minor

Program: Minor School of Arts and Sciences

Classroom-Medical Building 272 ~ 260-481-6711

Women's studies is based on the premise that the study of women's experiences, concerns, social roles, and creativity is essential to our knowledge of humankind and society. Feminist scholarship and theory provide the knowledge and analytical tools necessary for a gender-balanced perspective on our world, both past and present. The Women's Studies Program affords you the opportunity to pursue feminist scholarship on women and gender through a variety of interdisciplinary courses.

See School of Arts and Sciences in Part 3 for further information.

If you are pursuing a major other than women's studies, you may earn a minor in women's studies by completing the following 15 credits with a grade of C or better in each course and earning at least 8 credits as resident credit at IPFW.

Program Requirements

- Credits from cross-listed courses in humanities or visual arts Credits: 3
- Credits from cross-listed courses offered in social science or natural science Credits: 3
- Additional credits in cross-listed or WOST-prefixed courses Credits: 6
- WOST W210 - Introduction to Women's Studies Cr. 3.

Total Credits: 15

Research Certificate

Anthropology Research Certificate

**Program: Research Certificate in
Anthropology
Department of Sociology and
Anthropology
School of Arts and Sciences**

Kettler Hall G11A ~ 260-481-6272 ~ www.ipfw.edu/soca/anthhome.htm

Courses in anthropology provide an understanding of the nature of cultures and help you assess various explanations of human behavior; they also assist in the development of analytical and critical abilities. The curriculum is structured to include studies in the history and theory of anthropology, in four anthropological fields (ethnology, archaeology, bioanthropology, and linguistics), in at least two different world ethnographic areas, and in topical specializations. The program helps you prepare for graduate study, for teaching, and for careers in which the understanding of various cultures is an asset.

Although a minor is not required for the B.A. with a major in anthropology, an outside concentration is recommended. Fifteen credits in history, political science, psychology, or sociology support the concentration.

Research Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

History, Philosophy, or Theory of the Discipline

- ANTH H445 - History and Theory of Anthropology Cr. 3.

Cognate Research Tools

Any STAT course or one of the following:

- POLS Y395 - Quantitative Political Analysis Cr. 3.
- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- SOC S351 - Social Statistics Cr. 3.

Research Methods and Supervised Individual Research Credits: 6

Individualized Research

- ANTH A495 - Individual Readings in Anthropology Cr. 1-4.
and/or

Research Methods

- ANTH P382 - Archaeological Research Design Cr. 3.
- ANTH P400 - Archaeological Methods and Techniques Cr. 2-4.

Total Credits: 15

Note

Each student must present his or her research in a professional forum approved by the anthropology faculty.

Chemistry Research Certificate

Program: Research Certificate
Department of Chemistry
School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

Research Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

History, Philosophy, or Theory of the Discipline

- PHIL 351 - Philosophy of Science Cr. 3.

Cognate Research Tools

- MA 261 - Multivariate Calculus Cr. 4.

Research Methods and Supervised Individual Research

- CHM 424 - Analytical Chemistry II Cr. 4.
 - CHM 499 - Special Assignments Cr. 1-5
- Credits: 3

Total Credits: 17

Mathematical Sciences Research Certificate

Program: Research Certificate
Department of Mathematical Sciences
School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

Research Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

History, Philosophy, or Theory of the Discipline

- MA 305 - Foundations of Higher Mathematics Cr. 3.

Cognate Research Tools

One of the following Credits: 3-4

- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- STAT 511 - Statistical Methods Cr. 3.

Research Methods and Supervised Individual Research

- One upper-level undergraduate or dual-level course in mathematics or statistics appropriate to the area of research (e.g., MA 453, MA 441, MA 575, STAT 517) Credits: 3
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 490 - Topics in Mathematics for Undergraduates Cr. 1-5.
Credits: 3

Total Credits: 18-19

Physics Research Certificate

Program: Research Certificate

Department of Physics

School of Arts and Sciences

Kettler Hall 126B ~ 260-481-6306 ~ www.ipfw.edu/physics/

Research Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

History, Philosophy, or Theory of the Discipline

- PHYS 342 - Modern Physics Cr. 3.

Cognate Research Tools

One of the following Credits: 4

- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.

Research Methods and Supervised Individual Research

- PHYS 343 - Modern Physics Laboratory Cr. 1.

One of the following Credits: 3-4

- PHYS 322 - Optics Cr. 3.
- PHYS 325 - Scientific Computing Cr. 3.
- PHYS 361 - Electronics for Scientists Cr. 4.
- PHYS 405 - Atomic and Molecular Physics Cr. 3.
- PHYS 520 - Mathematical Physics Cr. 3.

Credits in the following: 6

- PHYS 270 - Special Topics in Physics Cr. 1-5.
- PHYS 470 - Special Topics in Physics Cr. 1-5.

Total Credits: 20-21

Psychology Research Certificate

Program: Research Certificate
Department of Psychology
School of Arts and Sciences

Neff Hall 388 ~ 260-481-6403 ~ www.ipfw.edu/psyc

The research certificate is described under Arts and Sciences in Part 3 of this

Research Writing

- ENG W233 - Intermediate Expository Writing Cr. 3.

**History, Philosophy, or Theory of the
Discipline**

- PSY 540 - History of Psychology Cr. 3.

Cognate Research Tools

- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.

**Research Methods and Supervised Individual
Research**

- PSY 203 - Introduction to Research Methods in Psychology Cr. 3.
- PSY 496 - Readings and Research in Psychology Cr. 1-6.
(as a research assistant to a faculty member, with the subtitle RES
ASST)
Credits: 3
- PSY 499 - Honors Thesis in Psychology Cr. 3.

Total Credits: 18

Teacher Certification

Chemistry Teaching Minor

Program: Minor

Department of Chemistry

School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

If you are already licensed or qualified to be licensed in another area, you may earn a chemistry teaching minor by completing the following 32 credits with a grade of C or better in each course.

Program Requirements

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 218 - Introduction to Inorganic Chemistry Cr. 3.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- CHM 371 - Physical Chemistry Cr. 3.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

Total Credit: 32

Earth and Space Science Teaching Minor

If you are already licensed or qualified to be licensed in another area, you may earn an earth and space science teaching minor by completing the following 27–28 credits with a grade of C or better in each course.

Program Requirements

- AST A100 - The Solar System Cr. 3.
- CHM 115 - General Chemistry Cr. 4.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- GEOL G221 - Introductory Mineralogy Cr. 3-4.
Credits: 3
- GEOL G222 - Introduction to Petrology Cr. 3.
- GEOL G420 - Regional Geology Field Trip Cr. 1-2.
Credits: 2

One of following Credits: 3-4

- GEOG G107 - Physical Systems of the Environment Cr. 3.
with GEOL L100 (4 credits)
- GEOL G100 - General Geology Cr. 3-5.
with L100 (4 credits)
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.

One of following Credits: 3

- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G211 - Introduction to Paleobiology Cr. 3.

One of following Credits: 3

- GEOL G315 - Environmental Conservation
- GEOL G300 - Environmental and Urban Geology Cr. 3.
- GEOL G415 - Geomorphology Cr. 3-4.

Total Credits: 27-28

Economics Teacher Certification

Program: Teacher Certification School of Arts and Sciences

Neff Hall 366B ~ 260-481-6483

Economics is the study of the rational allocation of scarce resources. The major seeks to develop those critical skills that help you understand and solve problems in a wide variety of circumstances. These analytical abilities are valuable in the business world and many professional disciplines such as law and social work.

This program is offered in close cooperation with the Department of Economics in the Richard T. Doerner School of Business and Management Sciences, which offers all economics courses required for the major.

You may be certified as a teacher of social studies after fulfilling all requirements for the B.A. with a major in economics and all requirements for teacher certification. Full information on teacher certification requirements is available from the School of Education.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUCK 201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

Geology Teacher Certification

Program: Teacher Certification

Department of Geosciences

School of Arts and Sciences

Science Building 230 ~ 260-481-6249 ~ www.geosci.ipfw.edu

You may be certified as a teacher of earth and space science after fulfilling the requirements for a B.A. with a major in geology or a B.S. in geology (ENG W233 must be taken as your writing requirement) and the requirements for teacher certification listed below.

The School of Education requires that you first complete EDUA F300, EDUC W200/M101, and EDUC K201 before you are permitted to take professional education courses. Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

To be eligible to apply for teacher licensure, you must earn a GPA of 2.00 or higher in each general education area. You should work closely with your advisor to ensure completion of general education requirements for teacher licensing. You must also earn a cumulative GPA of 2.50 or higher in your major area and the professional education courses. Each professional education course must be completed with a grade of C or better.

Additional information on teacher-certification requirements is available from the School of Education.

Professional Education

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
Credits: 2
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
Credits: 1
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.

Credits: 0

- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- AST A100 - The Solar System Cr. 3.
- EDUC H340 - Education and American Culture Cr. 2-3.
Credits: 3
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
Credits: 3
- EDUC M401 - Laboratory/Field Experience Cr.0-3.
Credits: 0
- EDUC M449 - Methods of Teaching Science in the Secondary Schools Cr. 3.
Credits: 3
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
Credits: 10
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
Credits: 3

And Select:

Credits: 3

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC P250 - General Educational Psychology Cr. 1-4.

And Select:

Credits: 3

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

History Teacher Certification

Program: Teacher Certification
Department of History
School of Arts and Sciences

Classroom-Medical Building 209 ~ 260-481-6686 ~ www.ipfw.edu/hist

You may be certified as a teacher of social studies after fulfilling all requirements for the B.A. with a major in history and all requirements for teacher certification. Full information on teacher certification requirements is available from the School of Education.

Prior to your junior year, the School of Education requires that you successfully complete EDUA F300, EDUC W200/M101, and EDUC K201 and the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

Language Arts Teaching Minor

Program: Minor

Department of English and Linguistics

Classroom-Medical Building 145 ~ 260-481-6841 ~ www.ipfw.edu/engl

If you are already licensed or qualified to be licensed in another area, you may earn a language arts teaching minor by completing the following 24 credits with a grade of C or better in each course.

Program Requirements

- One elective 300-level course in British literature Credits: 3
- One elective 300-level course in American literature Credits: 3

One of the following Credits: 3

- COM 250 - Mass Communication and Society Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.

One of the following Credits: 3

- EDUC E340 - Methods of Teaching Reading I Cr. 2-3.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
- ENG W400 - Issues in Teaching Writing Cr. 3.

One of the following Credits: 3

- One course in multicultural literature

- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.

One of the following Credits: 3

- ENG L202 - Literary Interpretation Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

One of the following Credits: 3

- ENG G205 - Introduction to the English Language Cr. 3.
- ENG G206 - Introduction to the Study of Grammar Cr. 3.
- ENG L103 - Introduction to Drama Cr. 3.

One of the following Credits: 3

- ENG L390 - Children's Literature Cr. 3.
- ENG L391 - Literature for Young Adults Cr. 3.

Total Credits: 24

Life Science Teaching Minor

Program: Minor

Department of Biology

School of Arts and Sciences

Science Building 330 ~ 260-481-6305 ~ www.ipfw.edu/bio

If you are already licensed or qualified to be licensed in another area, you may earn a life science teaching minor by completing the following 29 credits with a grade of C or better in each course.

Program Requirements

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.

- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.

Total Credit: 29

Mathematics Teacher Certification Minor

Program: Teacher Certification Minor Department of Mathematical Sciences School of Arts and Sciences

Kettler Hall 200 ~ 260-481-6821 ~ www.ipfw.edu/math

If you are already licensed or qualified to be licensed in another area, you may earn a mathematics teaching minor by completing the following 26–27 credits with a grade of C or better in each course.

Program Requirements

- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 560 - Fundamental Concepts of Geometry Cr. 3.

One of the following: Credits: 3-4

- CS 114 - Introduction to Visual Basic Cr. 3.
- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 453 - Elements of Algebra Cr. 3.
- MA 575 - Graph Theory Cr. 3.

One of the following: Credits: 3

- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Total Credits: 26-27

Mild Intervention Certification

In addition to the major in elementary education, students may earn certification in mild intervention. (This certification qualifies a teacher to teach students with mild and emotional disabilities in elementary or secondary school settings, depending on your current license.) Each course in the Mild Intervention Certification must be completed with a grade of C or better.

Program Requirements

- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC K370 - Introduction to Learning Disabilities Cr. 3.
- EDUC K453 - Management of Academic and Social Behavior Cr. 3.
- EDUC K465 - Service Delivery Systems and Consultation Strategies Cr. 3.
- EDUC M470 - Practicum Cr. 3-8.
(Final Course)

And Select:

- EDUC K352 - Education of Children with Learning Problems (LD and EMR) Cr. 3.
- EDUC M201 - Laboratory/Field Experience Cr. 0-3.

And Select:

- EDUC K371 - Assessment and Individualized Instruction in Reading and Mathematics Cr. 3.
- EDUC M301 - Laboratory/Field Experience Cr. 0-3.

Total Credits: 26

Physical Science Teaching Certification - Chemistry

To earn the physical science teaching certification, you must fulfill all requirements for the B.S. with a major in chemistry or physics, and you must

complete ENG W233 as your writing requirement and satisfactorily complete the courses listed below.

The School of Education requires that you first complete EDUA F300, EDUC W200/M101, and EDUC K201 before you are permitted to take professional education courses. Prior to your junior year, you must successfully complete the Pre-Professional Skills Test (PPST) before admission to the teacher education program. The PRAXIS II Specialty Area Exam must be completed before or during the student-teaching semester, normally in your senior year.

To be eligible to apply for teacher licensure, you must earn a GPA of 2.00 or higher in each general education area. You should work closely with your advisor to ensure completion of general education requirements for teacher licensing. You must also earn a cumulative GPA of 2.50 or higher in your major area and the professional education courses. Each professional education course must be completed with a grade of C or better.

School of Education Requirements

Prior to being admitted to the teacher education program, you must complete Group I courses and pass the PPST.

GROUP I

- EDUA F300 - Topical Exploration in Education Cr. 1-3.
- EDUC K201 - Schools, Society, and Exceptionality Cr. 1-3.
- EDUC M101 - Laboratory/Field Experience Cr. 0-3.
- EDUC W200 - Using Computers for Education Cr. 1.

GROUP II

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- EDUC H340 - Education and American Culture Cr. 2-3.
- EDUC K206 - Teaching Methods for Students with Special Needs Cr. 1-3.
- EDUC M401 - Laboratory/Field Experience Cr.0-3.
- EDUC M449 - Methods of Teaching Science in the Secondary Schools Cr. 3.
- EDUC M480 - Student Teaching in the Secondary School Cr. 1-16.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.

- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.

And Select:

Credits: 3

- EDUC M201 - Laboratory/Field Experience Cr. 0-3.
- EDUC P250 - General Educational Psychology Cr. 1-4.

And Select:

Credits: 3

- EDUC M301 - Laboratory/Field Experience Cr. 0-3.
- EDUC P253 - Educational Psychology for Secondary Teachers Cr. 1-4.

Additional Credits: 87

Physical Science Teaching Certification Minor

Program: Minor
Department of Chemistry
School of Arts and Sciences

Science Building 496 ~ 260-481-6289 ~ www.ipfw.edu/chem

If you are already licensed or qualified to be licensed in another area, you may earn a physical science teaching minor by completing the following 56 credits with a grade of C or better in each course.

Program Requirements

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.

- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.

Total Credits: 56

Physical Science Teaching Certification- Physics

Students who wish to earn physical science teaching certification should complete the requirements for the B.S. with a major in physics teaching with the following adjustments. In addition, the Praxis II Specialty Area Exam in both physics and chemistry must be completed before or during the student teaching semester, normally in your senior year.

Core and Concentration (Major) Courses

- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 330 - Intermediate Electricity and Magnetism Cr. 3.
- PHYS 331 - Electricity and Magnetism II Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.
- PHYS 345 - Optics Laboratory I Cr. 1.
- PHYS 346 - Advanced Laboratory I Cr. 1.
- PHYS 515 - Thermal and Statistical Physics Cr. 3.
- PHYS 550 - Introduction to Quantum Mechanics Cr. 3.

Supporting Courses

- CHM 115 - General Chemistry Cr. 4.

- CHM 116 - General Chemistry Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- CHM 321 - Analytical Chemistry I Cr. 4.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 363 - Differential Equations Cr. 3.

Total Credits: 140

Secondary Education Teaching Minor

Program: Minor

Department of Educational Studies

School of Education

Neff Hall 250 ~ 260-481-6441

In addition to the content area teaching majors, students can also obtain a teaching minor in one or more of the following areas:

Chemistry Teaching Minor (35 credits)

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 218 - Introduction to Inorganic Chemistry Cr. 3.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- CHM 371 - Physical Chemistry Cr. 3.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.

Earth and Space Science Teaching Minor (27–28 credits)

- AST A100 - The Solar System Cr. 3.
- CHM 115 - General Chemistry Cr. 4.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- GEOL G221 - Introductory Mineralogy Cr. 3-4.
Credits: 3
- GEOL G222 - Introduction to Petrology Cr. 3.
- GEOL G420 - Regional Geology Field Trip Cr. 1-2.
Credits: 2

One of the following: Credits: 3-4

- GEOG G107 - Physical Systems of the Environment Cr. 3.
- GEOL G100 - General Geology Cr. 3-5.
- GEOL G103 - Earth Science: Materials and Processes Cr. 3.
- GEOL L100 - General Geology Laboratory Cr. 1-2.

One of the following: Credits: 3

- GEOL G104 - Earth Science: Evolution of the Earth Cr. 3.
- GEOL G211 - Introduction to Paleobiology Cr. 3.

One of the following: Credits: 3

- GEOG G315 - Environmental Conservation Cr. 3.
- GEOL G300 - Environmental and Urban Geology Cr. 3.
- GEOL G415 - Geomorphology Cr. 3-4.

French Teaching Minor (34 credits)

- FREN F3xx-4xx - Language elective (300–400 level) Credits: 3
- FREN F3xx-4xx - Literature elective (300–400 level) Credits: 3
- FREN F216 - Second-Year French Conversation Credits: 2
- FREN F111 - Elementary French I Cr. 4.
- FREN F112 - Elementary French II Cr. 4.
- FREN F203 - Second-Year French I Cr. 3.
- FREN F204 - Second-Year French II Cr. 3.
- FREN F213 - Second-Year French Composition Cr. 2.
- FREN F317 - French Language Skills I Cr. 3.
- FREN F318 - French Language Skills II Cr. 3.

- FREN F325 - Oral French for Teachers Cr. 3-8.

One of the following: Credits: 3

- FREN F463 - Civilisation Francaise I Cr. 3.
- FREN F464 - Civilisation Francaise II Cr. 3.

German Teaching Minor (32 credits)

- GER G3xx-4xxElectives (300–400 level) Credits: 9
- GER G111 - Elementary German I Cr. 4.
- GER G112 - Elementary German II Cr. 4.
- GER G203 - Second-Year German I Cr. 3.
- GER G204 - Second-Year German II Cr. 3.
- GER G318 - German Language Skills I Cr. 3-5.
- GER G325 - German for Teachers Cr. 3.

One of the following: Credits: 3

- GER G3xx-4xxElectives (300–400 level) Credits: 9
- GER G362 - Deutsche Landeskunde Cr. 3.
- GER G363 - Deutsche Kulturgeschichte Cr. 3.

Language Arts (English) Teaching Minor (24 credits)

- British literature elective Credits: 3
- American literature elective Credits: 3
- EDUC X401 - Critical Reading in the Content Area Cr. 1-3.
- ENG L391 - Literature for Young Adults Cr. 3.

One of the following: Credits: 3

- ENG L101 - Western World Masterpieces I: Ancient to Renaissance Cr. 3.
- ENG L102 - Western World Masterpieces II: Renaissance to Modern Cr. 3.

One of the following: Credits: 3

- ENG L202 - Literary Interpretation Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

One of the following: Credits: 3

- COM 250 - Mass Communication and Society Cr. 3.
- JOUR C200 - Mass Communications Cr. 3.

One of the following: Credits: 3

- ENG G205 - Introduction to the English Language Cr. 3.
- ENG G206 - Introduction to the Study of Grammar Cr. 3.
- LING L103 - Introduction to the Study of Language Cr. 3.

Life Science (Biology) Teaching Minor (29 credits)

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.

Mathematics Teaching Minor (32 credits)

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 175 - Introductory Discrete Mathematics Cr. 3.
- MA 305 - Foundations of Higher Mathematics Cr. 3.
- MA 351 - Elementary Linear Algebra Cr. 3.
- MA 560 - Fundamental Concepts of Geometry Cr. 3.

One of the following: Credits: 3

- CS 160 - Introduction to Computer Science I Cr. 4.
- MA 453 - Elements of Algebra Cr. 3.
- MA 575 - Graph Theory Cr. 3.

One of the following: Credits: 3

- STAT 511 - Statistical Methods Cr. 3.
- STAT 516 - Basic Probability and Applications Cr. 3.

Physical Science Teaching Minor (62 credits)

(This subject area can be used as a minor teaching area or as a certification-only teaching major.)

- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 224 - Introductory Quantitative Analysis Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 322 - Optics Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.

Physics Teaching Minor (46 credits)

- MA 262 - Linear Algebra and Differential Equations Credits: 4
- EDUC Q400 - Man and Environment: Instructional Methods Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 165 - Analytic Geometry and Calculus I Cr. 4.
- MA 166 - Analytic Geometry and Calculus II Cr. 4.
- MA 261 - Multivariate Calculus Cr. 4.
- PHYS 152 - Mechanics Cr. 5.
- PHYS 251 - Heat, Electricity, and Optics Cr. 5.
- PHYS 310 - Intermediate Mechanics Cr. 4.
- PHYS 330 - Intermediate Electricity and Magnetism Cr. 3.
- PHYS 342 - Modern Physics Cr. 3.
- PHYS 343 - Modern Physics Laboratory Cr. 1.

Spanish Teaching Minor (37 credits)

- SPAN S111 - Elementary Spanish I Cr. 4.

- SPAN S112 - Elementary Spanish II Cr. 4.
- SPAN S203 - Second-Year Spanish I Cr. 3.
- SPAN S204 - Second-Year Spanish II Cr. 3.
- SPAN S210 - Second-Year Spanish Composition Cr. 2-3.
- SPAN S301 - The Hispanic World I Cr. 3.
- SPAN S302 - The Hispanic World II Cr. 3.
- SPAN S311 - Spanish Grammar Cr. 3.
- SPAN S312 - Written Composition in Spanish Cr. 3.
- SPAN S317 - Spanish Conversation and Diction Cr. 3.
- SPAN S488 - Spanish for Teachers Cr. 3.

One of the following: Credits: 3

- SPAN S411 - Spain: The Cultural Context Cr. 3.
- SPAN S412 - Latin-American Culture and Civilization Cr. 3.

Theatre Teaching Minor (24 credits)

- THTR electives Credits: 6
- THTR 134 - Fundamentals of Performance Cr. 3.
- THTR 138 - Acting I Cr. 3.
- THTR 201 - Theatre Appreciation Cr. 3.
- THTR 261 - Introduction to Theatrical Design Cr. 3.
- THTR 284 - Textual Analysis Cr. 3.

One of the following: Credits: 3

- THTR 470 - Theatre and Society I Cr. 3.
- THTR 471 - Theatre and Society II Cr. 3.

Theatre Teaching Minor

Program: Minor

Department of Theatre

School of Visual and Performing Arts

Williams Theatre 128 ~ 260-481-6551 ~ www.ipfw.edu/vpa

A theatre-teaching minor may be earned by completing the following courses and earning a grade of C or better in each required theatre course:

Program Requirements

- Additional theatre course Credits: 3
- THTR 134 - Fundamentals of Performance Cr. 3.
- THTR 138 - Acting I Cr. 3.
- THTR 158 - Stagecraft Cr. 3.
- THTR 201 - Theatre Appreciation Cr. 3.
- THTR 261 - Introduction to Theatrical Design Cr. 3.
- THTR 440 - Beginning Directing Cr. 3.

One of the following:

- THTR 470 - Theatre and Society I Cr. 3.
- THTR 471 - Theatre and Society II Cr. 3.

Total Credits: 24

Transfer Program

Agriculture (A.S.)

Program: Transfer Program School of Arts and Sciences

Science Building G56 ~ 260-481-6304

At IPFW, you can complete the first two years of most of the 47 Bachelor of Science programs in agriculture and forestry, the two-year preveterinary program, up to two semesters of the forestry and natural resources programs, two semesters of the preagricultural and biological engineering program, and three semesters of an associate degree program in agriculture. All agriculture degrees must be completed at the West Lafayette campus of Purdue University. The forestry and natural resources and preveterinary programs are listed alphabetically later in this part of the *Bulletin*.

All degree programs in agriculture provide balanced curricula in computer science, mathematics, physical sciences, biological sciences, communication, social sciences, humanities, international understanding or emphasis, and business, plus technical preparation in the selected area of specialization. These programs recognize the need for graduates who are prepared to function effectively in the highly technical world of modern agriculture.

The Purdue University School of Agriculture is one of the nation's highest-ranked and most-prestigious institutions of agricultural teaching, research, extension, and international programs. The West Lafayette faculty annually

prepares more than 2,000 undergraduate and 500 graduate students for careers in the world's food production and distribution systems.

The IPFW agriculture program coordinator will assist you with processing intercampus transfer forms and with arranging affiliation with the appropriate West Lafayette counseling coordinator for the degree program selected. For a listing of degree programs available and additional details about all programs, you should obtain a current Bulletin of the School of Agriculture from the IPFW agriculture dean's program coordinator.

The partial requirements stated below can be completed at IPFW and apply in most B.S. programs in agriculture. Because of professional objectives and accreditation requirements, significant variations exist in some programs such as agricultural and biological engineering, biochemistry, forestry and natural resources, and landscape architecture. Students selecting these options may be able to complete only one or two semesters at IPFW.

It is highly recommended that you keep in contact with the agriculture program coordinator to remain up to date on any changes in the course requirements and to make sure that the requirements of your particular major are being met.

The associate degree with a major in agriculture, which requires at least one semester of full-time study at the West Lafayette campus, helps students who must withdraw before they can finish a Bachelor of Science. You may take, at most, three semesters at IPFW. You may begin with the general course work for agriculture, preforestry, or preveterinary medicine. Within the program, you must complete a specialization in one of the following areas: agricultural economics, agricultural systems management, agronomy, animal sciences, general agriculture, or horticulture. You work out the details of your career (final) semester with the West Lafayette advisor for the specialization you select; it is desirable to establish contact with this advisor before your final semester at IPFW.

To receive the associate degree, you must:

- Complete at least half the credits for the Bachelor of Science for your declared option (64–65 credits).
- Earn a minimum graduation GPA of 2.00 or higher.
- Limit the number of elective credits taken under the pass/not-pass option to 12.
- Meet the minimum requirements listed below. For course selection at IPFW and assistance with transferring to the West Lafayette campus, you should see the agriculture program coordinator at IPFW. The assumption is that you will begin with courses that apply to the requirements for general agriculture, preforestry, or preveterinary medicine described in this Bulletin, but if you later choose the A.S. alternative, you must meet the following minimum requirements:

Mathematics and Basic Sciences

- Credits in calculus or statistics Credits: 3
- Credits in other mathematics and basic sciences Credits: 12

Written and Oral Communication

- Credits in written communication Credits: 6
- Credits in oral communication Credits: 3

Broadening Electives

- Credits in economics Credits: 3
- Credits in humanities or social sciences Credits: 3

Departmental Requirements and Electives

- Credits in departmental requirements and electives, at least 18 of which must be earned in School of Agriculture courses Credits: 35

Total Credits: 65

Consumer and Family Sciences

Program: Transfer Program School of Health Sciences

Neff Hall 330 ~ 260-481-6562

At IPFW, you may complete two years toward the Bachelor of Science offered by the School of Consumer and Family Sciences at the West Lafayette campus of Purdue University. Majors are in child development and family studies, dietetics, and retail management.

These degree programs must be completed at West Lafayette. IPFW also offers a B.S. and an A.S. in hospitality areas (see description later in this section).

The details of your general-education requirements and the courses in your field of specialization are determined by your selection of an option. For this information, you should obtain the Bulletin of the School of Consumer and Family Sciences. You must also consult the IPFW coordinator of consumer and family sciences to select the appropriate courses for your B.S. option.

At IPFW, you may complete the following courses required for all options:

IPFW General Education Requirements

Area I—Linguistic and Numerical Foundations

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
(or equivalent)
- ENG W233 - Intermediate Expository Writing Cr. 3.

Area II—Natural and Physical Sciences

For most options, the following IPFW courses are recommended:

- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

Area III—The Individual, Culture, and Society Credits: 9

See the Consumer and Family Sciences Bulletin and the CFS coordinator for requirements for your option. For most options, the following IPFW course is recommended:

- ECON E201 - Introduction to Microeconomics Cr. 3.

Note

The option you select may require additional credits in any of the three areas. You may fulfill many of the general-education requirements in all options at IPFW.

Total Credits: 27

Cytotechnology

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

At IPFW, you may complete three years towards the Bachelor of

Science in cytotechnology. You must be admitted to the clinical program at Indiana University–Purdue University Indianapolis to complete the degree. The details of your prerequisite course work should be discussed with IPFW health professors or the health sciences advisor. You may also consult an advisor at the IUPUI campus to discuss the degree by calling 317-278-4752 or by e-mail at askhpp@iupui.edu. The most current program information is found at <http://msa.iusm.iu.edu/hpp/>.

An interview plus a minimum cumulative GPA of 2.5, a minimum GPA of 2.0 in required prerequisites, and a minimum GPA of 2.5 in biology courses are required for admission to the IUPUI clinical program. Biology credits earned more than seven years prior to application must be updated by taking 3 additional credit hours related to cell biology within a period of time not to exceed 12 months prior to admission. Remedial courses will not fulfill prerequisite hours. Completion of courses does not guarantee admission to the IUPUI program. Admission to the professional program is competitive; therefore, completion of prerequisite courses does not guarantee admission to the IUPUI program.

At IPFW you may complete the following courses:

Program Requirements

- Credits in humanities: 3
- BIOL 119 - Principles of Structure and Function Cr. 4.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

One of the following Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.

One of the following combinations Credits: 6–8

- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- BIOL 334 - Clinical Pathophysiology Cr. 4.
- BIOL 381 - Cell Biology Cr. 3.
- BIOL 437 - General Microbiology Cr. 4.
- BIOL 537 - Immunobiology Cr. 3.

Credits from at least 3 upper-level biology courses: 9–11

Students must earn a total of 25 credits in biology (see advisor)

Other required courses:

- CHM 115L - General Chemistry Lab
- CHM 116L - General Chemistry Lab
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.

Electives Credits: 38–42

Total Credits: 90

Forestry and Natural Resources

Program: Transfer Program School of Arts and Sciences

Science Building G56 ~ 260-481-6304

Admission

At IPFW you may complete credits toward one of the five majors — fisheries and aquatic sciences, forestry, natural resources, wildlife, and wood products manufacturing technology — offered by the Department of Forestry and Natural Resources. You must transfer to Purdue University West Lafayette campus for second-year courses in order to have prerequisites for the summer practicum between the sophomore and junior years. You are encouraged to contact a West Lafayette advisor to confirm course selections. The following courses encompass most of the first-year requirements of these majors.

Program Requirements

- Credits in one of the following humanities and social sciences: anthropology; economics; fine arts, music, and theatre (history and appreciation only); foreign language; history; literature; philosophy;

political science; psychology; sociology; speech communication
Credits: 6

- AGRY 255 - Soil Science Credits: 3
- AGR 101 - Introduction to Agriculture and Purdue Cr. 1.
- BIOL 108 - Biology of Plants Cr. 4.
- BIOL 109 - Biology of Animals Cr. 4.
- CHM 111 - General Chemistry Cr. 3.
- CHM 112 - General Chemistry Cr. 3.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ECON E201 - Introduction to Microeconomics Cr. 3.
- FNR 103 - Introduction to Environmental Conservation Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Credits in English composition Credits: 6

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Total Credits: 48

Health Information Administration

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

The Health Information Administration Program is offered in the IUPUI School of Informatics. The program length is four years and requires 62 semester hours of prerequisite course work plus two years (60 credit hours) of professional course work. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program. Distance learning and classroom options are both available for the third and fourth year or professional part of the program. Remedial course work will not count toward the 62 required prerequisite credit hours. A minimum 2.5 cumulative grade-point average is required at the time of program application and must be maintained. Grades for remedial courses are included in the cumulative grade-point average. All qualified applicants will be interviewed prior to admission. Please

consult the IPFW health professions advisor for prerequisite course work information. Further information about the IUPUI program is available at <http://informatics.iupui.edu/academics/health/>.

Program Requirements

- OLS 236 - Elements of Law Credits: 3
- BUS W100 - Principles of Business Administration Cr. 3.
- CS 106 - Introduction to Computers Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
or higher-level math course

Choose one of the following Credits: 3

- ENG W232 - Introduction to Business Writing Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- ENG W234 - Technical Report Writing Cr. 3.
- ENG W331 - Business and Administrative Writing Cr. 3.
(P: W233)

One of the following combinations Credits: 6-8

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 215 - Basic Human Anatomy Cr. 4.
- BIOL 216 - Basic Mammalian Physiology Cr. 4.
- NUR 106 - Medical Terminology Cr. 3.

Choose 3 credits from the following: 3

- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- SPEA K300 - Statistical Techniques Cr. 3.
- STAT 240 - Statistical Methods for Biology Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Choose 3 credits from the following: 3

- PHIL 111 - Ethics Cr. 3.
- PHIL 312 - Medical Ethics Cr. 3.
- PHIL 326 - Business Ethics Cr. 3.

Humanities Areas III, IV, and V

- BUS A201 - Principles of Financial Accounting Cr. 3.

Choose 3 credits from the following: 3

- OLS 252 - Human Relations in Organizations Cr. 3.
- OLS 274 - Applied Leadership Cr. 3.
- SPEA H371 - Human Resource Management in Healthcare Facilities Cr. 3.

Choose 3 credits from the following: 3

- CS 306 - Computers in Society Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.
- SOC S163 - Social Problems Cr. 3.

Total Credits: 62

Journalism Transfer Program

Program: Transfer Program School of Arts and Sciences

Neff Hall 343 ~ 260-481-6685 ~ www.ipfw.edu/jour/

At IPFW, you may complete two years of course work toward the Bachelor of Arts offered by the Indiana University School of Journalism at both the Bloomington and Indianapolis campuses. While at IPFW, you may take courses in the fundamental-skills requirements in writing, mathematics, and foreign language; distribution requirements in arts and humanities, natural and mathematical sciences, and social and behavioral sciences; and a maximum of 12 credits in journalism core courses or electives.

Program Requirements

- JOUR J200 - Reporting, Writing and Editing I Cr. 3.
- JOUR J210 - Visual Communication Cr. 3.
- JOUR J300 - Communications Law Cr. 3.

One of following Credits: 3

- JOUR C200 - Mass Communications Cr. 3.
- JOUR J110 - Foundations of Journalism and Mass Communication Cr. 3.

Total Credits: 12

Notes

Internships and special course approvals are arranged through the IPFW journalism coordinator. Scholarships are available for declared journalism majors for the freshman year at IPFW and for subsequent years throughout the IU system. Applications are available in January.

For further information about journalism requirements and opportunities at IPFW, consult the *Bulletin* of the IU School of Journalism and course descriptions appearing in this *Bulletin*.

Medical Imaging Technology

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

An educational program in medical imaging technology is located on the Indiana University–Purdue University Indianapolis campus. This program is an advanced program for the registered radiographer (ARRT). You may also earn the A.S. in radiography at IPFW (see Radiography) and then transfer to IUPUI to complete the B.S. in medical imaging technology.

A minimum cumulative GPA of 2.5 for all college courses taken, including remedial courses and courses that do not meet prerequisite requirements, is considered when calculating the minimum cumulative GPA. A minimum GPA of 2.3 for all math, biological, and physical science course work taken, including remedial courses and courses that do not meet prerequisite requirements, is considered when calculating the minimum life and physical science grade-point average: 2.7 for Radiologic Tech courses and 3.0 for clinically related courses are required for admission to the IUPUI program. A written essay and evidence of registration or eligibility for registration in radiography (ARRT) required at time of application. Completion of

requirements does not guarantee admission into the program. Competitive grade-point averages are generally higher than the stated minimums. Additional program information may be found at <http://msa.iusm.iu.edu/hpp/>.

Program Requirements

Physical and Biological Sciences (must have a minimum of 16 total credit hours)

- Electives in humanities, sociology, or psychology Credits: 3 (see advisor)
- Elective in sociology or psychology Credits: 3
- CHM 115 - General Chemistry Cr. 4.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- NUR 106 - Medical Terminology Cr. 3.
- PHYS 220 - General Physics Cr. 4.

Radiography Courses Credits: 40-60

Total Credits: 82

Nuclear Medicine

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

At IPFW you may complete two years toward the Bachelor of Science in nuclear medicine offered by the Department of Radiology at the Indianapolis campus of the Indiana University School of Medicine. Observation in a nuclear medicine facility is required prior to interview. Qualified applicants must participate in an interview. Completion of these courses does not guarantee admission to the IUPUI clinical program. All college courses taken including remedial courses and courses that do not meet prerequisite requirements are considered when calculating the cumulative GPA and the life and physical science GPA. Applicants to the clinical program must have a minimum of 20 total credit hours from the physical and biological sciences (see advisor). You must have a minimum cumulative GPA of 2.50 and a math/science GPA of 2.50 to be admitted to the Indianapolis clinical program. The details of your general-education requirements should be discussed with an IPFW advisor. Further

details about the IUPUI program may be found at
<http://msa.iusm.iu.edu/hpp/>.

Program Requirements

At IPFW you may complete the following courses:

- Credits in anthropology, psychology, or sociology Credits: 6
- Credits in humanities Credits: 3
- Credits in math and science electives Credits: 3
- BIOL 215 - Basic Human Anatomy Cr. 4.
- BIOL 216 - Basic Mammalian Physiology Cr. 4.
- CS 106 - Introduction to Computers Cr. 3.
(or alternate CS course)
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.

One of the following: Credits: 5-6

- MA 153 - Algebra and Trigonometry I Cr. 3.
and
- MA 154 - Algebra and Trigonometry II Cr. 3.
or higher
- MA 159 - Precalculus Cr. 5.

One of the following: Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.

Credits in selected courses in physical and biological sciences

(must have a total of 20)

- BIOL 215 - Basic Human Anatomy Cr. 4.
and
- BIOL 216 - Basic Mammalian Physiology Cr. 4.
- CHM 115 - General Chemistry Cr. 4.
and
- CHM 116 - General Chemistry Cr. 4.
- PHYS 220 - General Physics Cr. 4.
(PHYS 218 or 201 may be substituted)

One of the following: Credits: 1-3

- BIOL 105 - Medical Terminology Cr. 1.
- NUR 106 - Medical Terminology Cr. 3.

Total Credits: 60

Occupational Therapy

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

An undergraduate degree in occupational therapy is no longer available. The entry-to-practice degree for the profession is now a master of science in occupational therapy. A bachelor of science in any discipline is required to apply for the master of science in occupational therapy program, which is offered through IUPUI (Indianapolis). You may earn your bachelor of science at IPFW then apply to the IUPUI graduate program, based on your interests. The M.S. program has no preference about which major you choose for your B.S., as long as you also complete the prerequisite courses found below.

Students must have completed a baccalaureate degree prior to admission into the program with a minimum cumulative GPA of 3.0. Five of the six prerequisites should be completed prior to application as well as observation and or volunteer work. A group interview is scheduled in the spring following receipt of the Jan. 15 application package.

Completion of these requirements does not guarantee admission to the program. Competitive GPAs are generally higher than the stated minimums. The details of the occupational therapy prerequisites should be discussed with an IPFW health professions or health sciences advisor (260-481-6967). You may also contact the advisor at the Indianapolis campus to discuss the M.S. in occupational therapy by calling 317-274-7238, or by e-mail at reakins@iupui.edu. You should also visit the Web site at www.shrs.iupui.edu/ot/.

Program Requirements

At IPFW, you may complete a prerequisite B.S. (see above) and must also complete the following courses:

- NUR 106 - Medical Terminology Cr. 3.
- PSY 350 - Abnormal Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.

One of the following sequences: Credits: 6-8

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
and
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 215 - Basic Human Anatomy Cr. 4.
and
- BIOL 216 - Basic Mammalian Physiology Cr. 4.

One of the following: Credits: 3

- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- SPEA K300 - Statistical Techniques Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Total Required Prerequisites: 18-20

Paramedic Sciences

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

You must be an Indiana- or nationally certified EMT with at least 20 hours of documented patient contact in an ambulance to complete this degree in Indianapolis. At IPFW, you may complete one year toward the Associate of Science in paramedic sciences offered at the Indianapolis campus of the Indiana University School of Medicine. The details of your general-education requirements should be discussed with an IPFW health professions advisor. You may also consult a health professions advisor at the Indianapolis campus for additional information or to discuss the Associate of Science, 317-278-4752 or askhpp@iupui.edu.

Program Requirements

At IPFW, you may complete the following courses:

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
- or
- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 215 - Basic Human Anatomy Cr. 4.
- or
- BIOL 216 - Basic Mammalian Physiology Cr. 4.
- ENG W131 - Elementary Composition I Cr. 3.
- MA 109 - Elementary Algebra Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.
- SOC S161 - Principles of Sociology Cr. 3.

One of the following: Credits: 3

- Credits in approved elective (see advisor) Credits: 3-5
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.

Total Credits: 24-26

Physical Therapy

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

An undergraduate degree in physical therapy is no longer available. The entry-to-practice degree for the profession is now the Doctor of Physical Therapy (D.P.T.), a graduate degree. Students can prepare for the D.P.T. in physical therapy as follows. At IPFW you may earn any baccalaureate degree then apply for the Doctor of Physical Therapy offered by the School of Health and Rehabilitation Sciences at the Indianapolis campus of Indiana University. Courses in statistics, chemistry, anatomy, physiology, and physics must be completed no more than seven years prior to admission to the D.P.T. program. All prerequisite courses must be passed with a grade of C or better. A minimum cumulative GPA of 3.2 and a math/science GPA of 3.2 is required for admission into the IUPUI program. An essay and clinical observations are also required for admission. Completion of these course requirements does not guarantee admission to the IUPUI program. The details of physical therapy prerequisites should be discussed with an IPFW allied health advisor. You must also

consult with an advisor at the Indianapolis campus to discuss the D.P.T., 317-274-7238 or e-mail reakinst@iupui.edu, or visit www.shrs.iupui.edu/pt/.

Your undergraduate program must include the following:

Program Requirements

- Humanities/social sciences electives Credits: 6
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- PSY 120 - Elementary Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.

Choose one of the following: Credits: 3-4

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
- BIOL 215 - Basic Human Anatomy Cr. 4.

Choose one of the following: Credits: 3-4

- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 216 - Basic Mammalian Physiology Cr. 4.

Choose one sequence: Credits: 8

- PHYS 201 - General Physics I Cr. 5.
and
- PHYS 202 - General Physics II Cr. 5.
(summer only)
or
- PHYS 218 - General Physics Cr. 4.
and
- PHYS 219 - General Physics II Cr. 4.
or
- PHYS 220 - General Physics Cr. 4.
and
- PHYS 221 - General Physics Cr. 4.

Choose one: Credits: 3

- SPEA K300 - Statistical Techniques Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Total Credits: 39

Prepharmacy

Program: Transfer Program School of Arts and Sciences

Classroom-Medical Building 153 ~ 260-481-6160

Because the School of Pharmacy and Pharmacal Sciences at the Purdue University West Lafayette campus does not admit first- or second-year students, you must complete at least 64 credits in the two-year prepharmacy program and apply for admission to the school prior to Jan. 1 of the second year. To complete the prepharmacy program at IPFW, you should apply for admission as a prepharmacy student in the School of Arts and Sciences and complete the requirements listed below. To be considered for admission to the West Lafayette program, you should have at least a B+ average for all courses. If you do not gain admission to the pharmacy school, you may transfer to another program at IPFW. A complete set of degree requirements is available from the School of Pharmacy at West Lafayette.

Program Requirements

- Credits in approved electives Credits: Cr. 9
- BIOL 108 - Biology of Plants Cr. 4.
- BIOL 109 - Biology of Animals Cr. 4.
- BIOL 215 - Basic Human Anatomy Cr. 4.
- BIOL 216 - Basic Mammalian Physiology Cr. 4.
- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- ECON E200 - Fundamentals of Economics Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.

- PHYS 220 - General Physics Cr. 4.

Total Credits: 64

Preveterinary

Program: Transfer Program School of Arts and Sciences

Classroom Medical Building 153A ~ 260-481-6749

At IPFW, you may complete the four-semester preveterinary curriculum, which includes the minimum requirements for admission to the School of Veterinary Medicine at the West Lafayette campus of Purdue University.

If you do not gain admission to veterinary medicine, you may use the curriculum below as the basis for continued study toward a degree in the School of Agriculture at West Lafayette. Students should contact the agriculture dean's deputy early in their academic career to discuss degree options. By substitution of certain BIOL courses, you may pursue this option as a biology major and obtain the B.S. with a major in biology rather than in agriculture.

Program Requirements

You may complete the following courses at IPFW:

- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- BIOL 217 - Intermediate Ecology Cr. 3.
- BIOL 218 - Genetics and Molecular Biology Cr. 4.
- BIOL 219 - Principles of Functional Biology Cr. 3.
- CHM 115 - General Chemistry Cr. 4.
- CHM 116 - General Chemistry Cr. 4.
- CHM 254 - Organic Chemistry Laboratory Cr. 1.
- CHM 255 - Organic Chemistry Cr. 3.
- CHM 256 - Organic Chemistry Cr. 3.
- CHM 258 - Organic Chemistry Laboratory Cr. 1.
- CHM 533 - Introductory Biochemistry Cr. 3
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- MA 229 - Calculus for the Managerial, Social, and Biological Sciences I Cr. 3.
- MA 230 - Calculus for the Managerial, Social, and Biological Sciences II Cr. 3.
- PHYS 220 - General Physics Cr. 4.

- PHYS 221 - General Physics Cr. 4.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

Credits in an agriculture course Credits: 3

Credits in English composition Credits: 6

- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.

Credits from the following areas: Credits:
12

- Anthropology
- Communication
- Economics
- History
- Fine arts, music, and theatre (history and appreciation only)
- Foreign language
- Literature
- Philosophy
- Political science
- Psychology
- Sociology

Credits in one of the following
concentrating electives Credits: 3

- ANSC 101 - Animal Agriculture Cr. 3.
- ANSC 221 - Principles of Animal Nutrition Cr. 3.
- VM 102 - Careers in Veterinary Cr. 1.

Total Credits: 82

Preveterinary Technology

Program: Transfer Program
School of Arts and Sciences

Science Building G56 ~ 260-481-6304

At IPFW, you may complete the four-semester preveterinary curriculum, which includes the minimum requirements for admission into the baccalaureate degree program in veterinary technology at the West Lafayette campus of Purdue University.

Also available are the associate degree program and a distancelearning Web-based instruction program for veterinary technology, both administered through Purdue University West Lafayette. For information concerning admission to these programs, please visit this Web site: <http://vet.vet.purdue.edu/vtdl/vtdlhome/>.

The distance-learning program leads to an associate degree from Purdue University while taking all required courses either at the IPFW campus, via distance learning and Web instruction, or in collaboration with local designated clinical mentors and/or veterinarians in the surrounding counties.

Program Requirements

You may complete the following courses for the baccalaureate and associate degree programs at IPFW:

- Nine credits for electives in the following areas: Credits: 9
anthropology, communication, economics, history, philosophy,
political science, psychology, sociology
- ANSC 101 - Animal Agriculture Cr. 3.
- ANSC 221 - Principles of Animal Nutrition Cr. 3.
- BIOL 117 - Principles of Ecology and Evolution Cr. 4.
- BIOL 119 - Principles of Structure and Function Cr. 4.
- CHM 111 - General Chemistry Cr. 3.
- CHM 112 - General Chemistry Cr. 3.
- COM 114 - Fundamentals of Speech Communication Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.
- VM 102 - Careers in Veterinary Cr. 1.

Total credits available for transfer to
Purdue University Programs: 45

Radiation Therapy

Program: Transfer Program

School of Health Sciences

Neff Hall 142 ~ 260-481-6967

At IPFW you may complete two years toward the Bachelor of Science offered at the Indianapolis campus of the Indiana University School of Medicine. The details of your general education requirements should be discussed with an IPFW allied health advisor. You must also consult an advisor at the Indianapolis campus to discuss the bachelor's degree, 317-278-4752 or e-mail askhpp@iupui.edu. A minimum cumulative GPA of 2.5 and a minimum GPA of 2.3 for all math and science courses and a minimum grade of C for each prerequisite course is required for admission to the IUPUI program. Remedial courses are not utilized in the cumulative GPA or math/science GPA index. Observation in a radiation oncology facility is required prior to application. An interview is also required. Completion of these requirements does not guarantee admission to the IUPUI program. Further information about the IUPUI program is available by e-mail at dodunn@iupui.edu.

Program Requirements

At IPFW you may complete the following courses:

- Anthropology, psychology, or sociology Credits: 3
- Biology electives Credits: 1-7
- Humanities Credits: 3
- Business electives Credits: 6
- CS 106 - Introduction to Computers Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- PHYS 220 - General Physics Cr. 4.
- PSY 120 - Elementary Psychology Cr. 3.

One of the following: Credits: 1-3

- BIOL 105 - Medical Terminology Cr. 1.
- NUR 106 - Medical Terminology Cr. 3.

Choose one of the following:

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
- BIOL 215 - Basic Human Anatomy Cr. 4.

Choose one of the following:

- BIOL 204 - Human Anatomy and Physiology Cr. 4.
- BIOL 216 - Basic Mammalian Physiology Cr. 4.

One of the following: Credits: 5-6

- MA 153 - Algebra and Trigonometry I Cr. 3.
and
- MA 154 - Algebra and Trigonometry II Cr. 3.
or
- MA 159 - Precalculus Cr. 5.

One of the following: Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.

Total Credits: 50

Respiratory Therapy

Program: Transfer Program School of Health Sciences

Neff Hall 142 ~ 260-481-6967

At IPFW you may complete two years toward the Bachelor of Science in respiratory therapy. The Respiratory Therapy Program is part of a hospital- and university-based consortium. The details of your general-education requirements should be discussed with an IPFW health professions or health science advisor. You must also consult an advisor at the Indianapolis campus to discuss the bachelor's degree (317-278-4752). A minimum cumulative GPA of 2.5, and a minimum grade of C for each prerequisite course is required for admission to the IUPUI program. Completion of these courses requirements does not guarantee admission to the IUPUI program. Further information about the IUPUI program is also available at <http://msa.iusm.iu.edu/hpp/>.

At IPFW you may complete the following courses:

Program Requirements

- BIOL 220 - Microbiology for Allied Health Professionals Cr. 4.
- CHM 115 - General Chemistry Cr. 4.
- CS 106 - Introduction to Computers Cr. 3.
- ENG W131 - Elementary Composition I Cr. 3.
- ENG W233 - Intermediate Expository Writing Cr. 3.
- PSY 120 - Elementary Psychology Cr. 3.
- PSY 369 - Development Across the Lifespan Cr. 3.

Choose one of the following:

- BIOL 203 - Human Anatomy and Physiology Cr. 4.
Preferred course
- BIOL 215 - Basic Human Anatomy Cr. 4.

Choose one of the following:

- BIOL 204 - Human Anatomy and Physiology Cr. 4.
Preferred course
- BIOL 216 - Basic Mammalian Physiology Cr. 4.

One of the following: Credits: 5-6

- MA 153 - Algebra and Trigonometry I Cr. 3.
- MA 154 - Algebra and Trigonometry II Cr. 3.
- MA 159 - Precalculus Cr. 5.

One of the following: Credits: 3

- COM 114 - Fundamentals of Speech Communication Cr. 3.
- COM 212 - Approaches to the Study of Interpersonal Communication Cr. 3.
Preferred course

One of the following: Credits: 3

- PHIL 111 - Ethics Cr. 3.
- PHIL 312 - Medical Ethics Cr. 3.

One of the following: Credits: 3

- PSY 201 - Introduction to Quantitative Topics in Psychology I Cr. 3.
- SPEA K300 - Statistical Techniques Cr. 3.
- STAT 301 - Elementary Statistical Methods I Cr. 3.

One of the following: Credits: 4-5

- PHYS 201 - General Physics I Cr. 5.
- PHYS 218 - General Physics Cr. 4.
- PHYS 220 - General Physics Cr. 4.
Preferred course

Credits in approved electives (to total 55)
Credits: 6-7

Total Credits: 55

Part 8. Directory

Click on a link to be taken to the entry below.

- Administration
- General and Staff Officers
- Academic Units
- Faculty and Administrative Staff

Administration

Martin C. Jischke, President, Purdue University

Adam W. Herbert, President, Indiana University

Michael A. Wartell, Chancellor, IPFW

Joanne B. Lantz, Chancellor Emerita, IPFW

General and Staff Officers

Walter J. Branson, Vice Chancellor for Financial Affairs

Susan B. Hannah, Vice Chancellor for Academic Affairs

Edna D. Neal, Vice Chancellor for Student Affairs

Jack C. Dahl, Associate Vice Chancellor for Institutional Research

Carl N. Drummond, Associate Vice Chancellor for Research and
External Support

Steven T. Sarratore, Associate Vice Chancellor for Academic
Programs, Director of Graduate Studies

Kathleen L. O'Connell, Assistant Vice Chancellor for Faculty Affairs

Mark A. Franke, Associate Vice Chancellor for Enrollment Management

Kenneth C. Christmon, Associate Vice Chancellor for Diversity and Multicultural Affairs

Linda L. Ruffolo, Executive Director of Development

Irene A. Walters, Executive Director of University Relations and Communications

Melissa J. McIntosh, Equal Opportunity Affirmative Action Officer

Patrick A. McLaughlin, Registrar

Deborah M. Conklin, Executive Director of the Division of Continuing Studies

Academic Units

School of Arts and Sciences

Administration L. Balthaser (emerita), Legg (associate dean), Lipman (dean)

Center for Academic Support and Advancement Anderson, Darabi (director), Ehle, Keck, Kirkwood

Department of Audiology and Speech Sciences Dalby, Egly, P. Flynn (emerita), L. Hess (chair)

Department of Biology Blumenthal, Bosela, W. Cooper, Davies (emeritus), DeMott, Dhawale, Gillespie, Haddock, Holt (emeritus), Jordan, Kingsbury (chair), Lyng (emeritus), Manalis (emeritus), McLellan, Mourad, Mustafa, Paladino, Peters, Richeson (emerita), D. Ross, Shannon, Tobolski (emeritus), Visalli

Department of Chemistry Berger, Coburn, Columbia, Cox (emeritus), Duchovic, Ericson, J. Flynn (emeritus), Friedel (associate chair), R. Friedman (chair), Gregory, Kimble, Linn, Longroy (emeritus), V. Maloney, Pacer (emeritus), Slack (emerita), Stevenson (emeritus), Tahmassebi, Wartell

Department of Communication Banks, Bermes, Carr, Dircksen, Dixon (chair), Fullman, Godwin-Starks, R. Hess, Mallin, McCants (emeritus), Simpson, Switzer, Tankel

Department of English and Linguistics Amidon, Anders, Bassett, Blythe, J. Brennan, Cain, Crismore, Darabi, Dehr, Devine (emeritus), Farnsworth, Felber, L. Friedman (emeritus), Griggs, Hostetter (emeritus), Hume, Kalamaras, Kaufmann, Kozicki (emeritus), Lin, Minton, Moritz (emeritus), Novak (emeritus), O'Hear (emeritus), R. Ramsey (chair), C. Roberts (emerita), L. Roberts, Schwartz, Simon, Standley (emerita), Stapleton, Stauffer (emerita), J. Stewart, Sun, C. Thompson, van Nuis (emerita), Weller, Westerfield, Woolf (emeritus)

Department of Geosciences Argast, Chowdhury (emeritus), Crow, Drummond, Farlow, Isiorho (chair), Sunderman (emeritus)

Gerontology Program McLorg (director)

Department of History J. Bell (emeritus), Blumenshine, Cantor (emeritus), Erickson, Fischer (chair), Gates, Haw, Livschiz, C. Scott (emeritus), A. Violette (emerita), R. Weiner

Department of International Language and Culture Studies

Benito, Clausen (emerita), Clegg, Conforti, Corbin (chair), Craig (emerita), Fox, Harroff (emeritus), Heimann, Jehle (emeritus), R. Johnson (emeritus), Oberstar, L. Roberts, Rosenfeld (emerita), Seiler (emerita), Summers, Virtue

Journalism Program Colbert (coordinator)

Liberal Studies Program Kaufmann (director)

Department of Mathematical Sciences Akkari, Beineke, Bulmahn (emerita), Chauhan, Coffman, Conn (emerita), Coroian, Dragnev, Finco (emeritus), Frederick, Hamburger, Hersberger, LaMaster, Legg (chair), Lipman, Mau, Osowski, Pan, Pippert (emeritus), Redett, Svoboda, D. Townsend, Vandell, J. Vetter, Wagner, Walsh, C. Weakley, W. Weakley, Zook, Zubovic

Peace and Conflict Studies Program Ashton (director)

Department of Philosophy Buldt (chair), Bruening, Butler, Dixie, Fairchild (emeritus), Long, D. Moore, Ohlander, Squadrito, Strayer

Department of Physics Grove, Lichti (emeritus), Littlefield (emeritus), D. Maloney, Masters, Miers (emeritus), Robinson, Vasquez, Wang

Department of Political Science Bartky, Coufoudakis (emeritus), Downs (director of Mike Downs Center for Indiana Politics), Hannah, Houseman (emeritus), Lutz (chair), Smulkstys (emeritus), Toole, Ulmschneider, Wolf

Department of Psychology Abbott, Bendele, Blakemore (chair), Bordens, Cannon (emeritus), DeFonso, DiClementi, Drouin, Fazel (emeritus), Fliotsos (emeritus), Gerow (emeritus), C. Hill, Jackson, Kaiser, Kepes (emeritus), Lantz (emerita), Lawton, Lundy, D. Miller, Vartanian, Young

Department of Sociology and Anthropology

Anthropology Program Kuznar, McCullough (director, Archaeological Survey), Odden, A. Sandstrom (director), Sutter

Sociology Program Ashton, Bradley, De Venanzi, Dilorio, Holland, Iadicola, Nusbaumer, Overton, Shupe, W. Taub (chair), Tsai (emeritus), Usman (emeritus)

Women's Studies Program Fox (director)

Richard T. Doermer School of Business and Management Sciences

Administration Byers (director of student center), J. Moore (associate dean), Shipchandler (associate dean for external relations), Wellington (dean)

Department of Accounting and Finance Chuwonganant, D. Davis (emerita), S. W. Davis, Guice, Keller, Minke, Mitchell (emerita), Papiernik, Pfeffenberger (emeritus), Pollock (interim chair), Schmelz, Sharma, Slaubaugh

Department of Economics Adilov, Bialik, Bullion (emeritus), Dilts, Guthrie (emeritus), Haber, Rassuli, Samavati, Stump

Department of Management and Marketing Berry (emeritus), Bingi, H. Gibbons (emerita), R. Hill (emeritus), Hockemeyer (emerita), Karim, Karaatli, Khamalah (chair), Leonard (emeritus), Lingaraj (emeritus), Maile (emeritus), Metts, J. Moore, Moustafa, Person (emerita), Shipchandler, Suntompithug, Todorovic, Turnipseed, Wellington

Division of Continuing Studies

Administration Braun (director of marketing), Conklin (executive director), Fredrick (emeritus), M. Kelly (director of entrepreneurship and company training), Marchionni (marketing specialist), Mayhall (assistant director of credit programs), McCrory (director of small business development center), Miarka-Grzelak (Web/data specialist), Raymer (director of credit programs), Schaufelberger (ACELINK program coordinator), Schott (director of personal and professional development), Tanner (assistant director of personal and professional development), Wood (director of distance learning and Weekend College)

General Studies Hook (director), McMurtrie (academic advisor)

School of Education

Administration Beard (director of licensing and advising), Gage (coordinator of advising), Jordan (director of curriculum lab), Kanpol (dean), Murphey (associate dean), Reynolds (director of field services and student teaching), Roberts (education specialist), R. Wiener (emerita)

Educational Studies Agness, Choi, Dirkes (emerita), Hickey, Huffman (emerita), Kanpol, Kirby (emeritus), Lindquist, McFarland, Madden (emeritus), Merz, Moss, Murphey, J. Nichols (chair of

educational studies), Nowak, Phillips (emeritus), Skelton (emeritus), Souers (emerita), Swim

Professional Studies Batagiannis, Burg, Crites, Garvey, Keller (emeritus), Leatherman, Nitza, Parke, Rodriguez (emeritus), Utesch (chair of professional studies)

College of Engineering, Technology, and Computer Science

Administration Mansfield (dean emeritus), Voland (dean), Broberg (associate dean), K. Modesitt (associate dean)

Department of Civil and Architectural Engineering Technology Broberg (interim chair), Devine, Ding, B. Franke, Kendall, Kubik, Marshall II, Tannous

Department of Computer Science R. Barrett, Erbach, Kim, Leeper (emeritus), D. Liu, Mansfield (emeritus), K. Modesitt, Petruska, Sanders, Sedlmeyer, Silver (emeritus), Stanchev, Temte, D. Thuente (emeritus), Toscos, Udoh

Department of Electrical and Computer Engineering Technology Broberg, Detraz (emeritus), H. Gates (emeritus), Gideon (emeritus), Goodmann, Hack, Laverghetta, Lin (chair), G. Steffen, T. Zhao

Department of Engineering Abu-Mulaweh, Chatterjea (emeritus), C. Chen, K. Johnson (emeritus), Kang, Y. Liu, Mahmoud (emeritus), Mauritzzen, S. Moor, Mueller, Njock Libii, Oloomi, Pomalaza-Raez (chair), E. Thompson, Voland, Wang, Walter, Younis, J. Zhao

Department of Mechanical and Industrial Engineering Technology Allendorph (emeritus), Dupen, Gedom (emeritus), Z. Liang, McAleece (emeritus), Messal (emeritus), Narang, Nepal, Perry, Pugh, Quinn (emeritus), Rosencrans (emeritus), Schmidt (emeritus), Tryon (emeritus), Worthley (emeritus)

School of Health Sciences

Administration Csicsko (director of student services), L. Finke (dean), Hine (academic advisor), Kracker (interim associate dean)

Department of Consumer and Family Sciences Knight (chair), Lolkus, E. Waters (emerita)

Division of Dental Education Brian, Champion (director, dental laboratory technology), M. Cooper, Foley (director, dental hygiene), Henderson, Huxoll (emerita), Kracher (interim chair, director of dental assisting), Leeuw, Mann, Perez, Reininger (emeritus), Ringel, Schimmele (emeritus), Stuart, Zonakis (emeritus)

Department of Human Services Eber, Hawley (emeritus), Parker, Wark

Department of Nursing J. Bauman (academic advisor), Beckman, Clemens, Cowen (emerita), Crill (emerita), Dannhausen, DeKoninck, Drake, Eichenauer (emerita), Erdman (emerita), Fincher (emerita), L. Finke (dean), Franz (emerita), Freiburger (emerita), Funck (emerita), Graham, Harges, Hartman, B. Hill (emerita), Jensen, Kaskel, L. Meyer (undergraduate director), J. Modesitt (academic advisor), O'Connell, Reimer, Salmon, Sorge, Sternberger (chair), Tierney (emerita), Willock

Division of Labor Studies (IUPUI Program)

Administration Crouch (noncredit coordinator), Mulder (credit coordinator)

Library

Administration Adkins, M. Baden, K. Balthaser (emeritus), Codispoti, Garrison, Griffin (emeritus), W. Hunsberger (emeritus), Patterson, P. Sandstrom, Schulte, Skekloff, Truesdell (assistant director), J. Violette, (director),

Division of Organizational Leadership and Supervision

G. W. Abbott (emeritus), Bushong (emeritus), Chandler (emeritus), Creasser (emeritus), Gilbreath, Groff, Harp (emerita), Hite, Mansour-Cole, McDonald (chair), Montesino, Paddock (emerita), Rickert (emerita), Sherr, Wakley (emerita)

Division of Public and Environmental Affairs

Public and Environmental Affairs Administration Fife, Grant (director of graduate studies), Guthrie (emeritus), Hancock, Leinbach (coordinator of advising and student services), Ludwin (emeritus), Miller (interim director and assistant dean), Otani, Owen (emeritus), Ziegler

School of Visual and Performing Arts

Administration Christy (dean)

Department of Music Ator (emeritus), Bean (chair), Bookout, Christy, Cooke, Dembar, Gausline, Haritun, N. Jackson, Lydy, MacDonald, Meyers (emeritus), Outland, Prickett, Reinhardt, Remissong, Resch, Robertson, J. Robinson, Saunders, Severs, Vernon, Wright-Bower

Department of Theatre Bernard, Coughlin, Humphrey, Life (chair), Purse-Wiedenhoef, Ridgeway, Sarratore, Stewart (technical director), Troy

Department of Visual Arts

Fine Arts Program Bradley (emeritus), Ganz, H. Garcia (emeritus), Goodman (acting chair), Hrehov, D. Kruse (emeritus), Lee (emeritus), McCroskey-Hrehov, McCullough (emeritus), Oettel (emeritus), Ushenko

Visual Communication and Design Program Brewer, Campbell, Krist (emeritus), LeBlanc (acting chair), Lopez, Motz, Murray, Nelipovich

Indiana University School of Medicine, Fort Wayne Campus

Administration D. Bell, Bryan (emeritus), Hoversland, Koritnik, Merkel, Ragatz (emeritus), Redman, Sweazey, Vilensky

Faculty and Administrative Staff

Bruce B. Abbott, **Associate Professor of Psychology (1978)** B.A., University of Toledo, 1972; M.A., Bowling Green State University, 1978; Ph.D., 1980.

G. Warren Abbott, **Professor Emeritus of Supervision** B.A., Albion College, 1935; M.A., University of Illinois, 1936.

Jeff H. Abbott, **Assistant Professor of Education (2006)** B.S., Butler University, 1971; M.S., 1973; J.D., Indiana University, 1975; Ed.S., 1982; Ph.D., Indiana State University, 1994.

Hosni Abu-Mulaweh, **Professor of Mechanical Engineering (1997)** A.A.S., Rockland Community College, 1982; B.S. University of Missouri Rolla, 1984; M.S., 1987; Ph.D., 1992.

Tiffin M. Adkins, **Assistant Librarian (2001)** B.S., Ball State University, 1988; M.A.E., 1989.

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Phyllis J. Agness, Assistant Professor of Education (1988) B.S., Ball State University, 1968; M.S., 1975; Ed.D., 1980.

Safwan H. Akkari, Associate Professor of Mathematical Sciences (1988) B.S., Lebanese University, 1977; M.S., University of Tennessee, 1982; Ph.D., Louisiana State University, 1988.

Jihad M. Albayyari, Chair and Professor of Mechanical and Industrial Engineering Technology (2006) B.S., University of Cincinnati, 1989; M.S., 1990; Ph.D., 1995.

Susan M. Alderman, Media Director (2002) B.S., Northwest Missouri State University, 1976.

Lewis R. Allendorph, Professor Emeritus of Mechanical Engineering Technology B.S.M.E., Purdue University, 1953; M.S.Ed., 1954; PE (Indiana).

JoAnne Alvarez, 21st Century Scholars Regional Coordinator (2004) A.S., Purdue University, 1999; B.A., 2001.

Deborah A. Alvey, Faculty Records and Budget Administrator (2000)

Stevens R. Amidon, Assistant Professor of English (2003) B.S., Regents College, 1987; M.F.A., Goddard College, 1994; Ph.D., University of Rhode Island, 2003.

Irene Anders, Continuing Lecturer in English and Linguistics (2000) B.A., Moscow State Pedagogical, 1973; M.A., Indiana University, 2000.

Gregory L. Anderson, Associate Director for First Year Experience (1989) B.A., Concordia College, 1972; M.S., Saint Francis College, 1983.

Christopher R. Andres, Field and Laboratory Supervisor (2006) B.A., Indiana University, 1993; M.A., Southern Illinois University, 2000; Ph.D., Indiana University, 2005.

Jeanette R. Anstett, Administrative Assistant to Vice Chancellor for Student Affairs (2002)

Anne S. Argast, Associate Professor of Geology (1985) B.S., University of Rochester, 1978; M.A., State University of New York at Binghamton, 1982; Ph.D., 1986.

Bruce J. Arnold, Manager, Life Science Support Service (1986) B.S., Purdue University, 1975; M.S., Texas A&M University, 1981.

Patrick J. Ashton, Associate Professor of Sociology and Director of Peace and Conflict Studies (1979) B.A., Oakland University, 1972; M.A., Michigan State University, 1975; Ph.D., 1981.

James D. Ator, Associate Professor Emeritus of Music B.Mus.Ed., Drake University, 1960; M.Mus., Wichita State University, 1964; D.Mus.A., North Texas State University, 1971.

Adam N. Atkinson, Network Systems Programmer (2002) A.S., International Business College, 1998.

Marla M. Baden, Associate Librarian, Serials Librarian/Automation Coordinator (1999) B.A., Ohio State University, 1979; M.L.S., University of Tennessee, 1981.

William W. Baden, Senior Research Analyst, Institutional Research and Analysis (1986) A.S., Miami University, 1973; B.A., University of Toledo, 1976; M.A., University of Tennessee, 1982; Ph.D., 1987.

Armond J. Ball, Men's Volleyball Coach and Assistant to the Athletics Director (1980) B.S., Ball State University, 1967; M.A., 1971.

Kenneth J. Balthaser, Associate Librarian Emeritus B.S., The University of Akron, 1961; M.S.Ed., Indiana University, 1963; Ed.S., 1965; Ed.D., 1967; M.S.L.S., Western Michigan University, 1978.

Linda S. Balthaser, Assistant Dean Emerita of the School of Arts and Sciences B.S., University of Indianapolis, 1961; M.S., Indiana University, 1962.

Barbara Jane Banks, Associate Professor of Communication (1991) B.A., The University of South Florida, 1972; M.A., 1974; Ph.D., The Ohio State University, 1980.

Carla R. Barrett, Supervisor, Life Science Resource Center (1983) A.A.S., Purdue University, 1982; B.S., 1983; B.S., 1990; M.S., 1998.

Robert A. Barrett, Professor of Information Systems (1979) A.S., Indiana University, 1974; A.S., 1975; B.S.B., 1977; M.S.B.A., 1979.

Elliot M. Bartky, Assistant Professor of Political Science (1988) B.A., Rutgers University, 1974; M.A., 1979; Ph.D., 1983.

Rachel H. Bassett, Assistant Professor of English (2006) B.A., University of Kansas, 1993; M.A., 1995; Ph.D., 2004.

Stella C. Batagiannis, Assistant Professor of Education (2005) B.A., Valparaiso University, 1973; M.S., Indiana University Northwest, 1997; Ph.D., Indiana State University, 1984.

Lydia C. Bates, Academic Coordinator, Upward Bound (2004) A.S., Indiana University, 1999; B.S., 2001.

Joanne M. Bauman, Academic Advisor (2001) B.S., Purdue University, 2000.

Robert D. Bean, Chair and Professor of Music (2002) B.Mus.Ed., Mississippi State University, 1976; M.Mus.Ed., 1978; D.A., University of Mississippi, 1981.

James F. Beard, Director of Licensing and Advising (1996) B.S., Fort Wayne Bible College, 1988; M.A., Ball State University, 1997.

Sarah J. Beckman, Associate Professor of Nursing (1989) B.S.N., Ball State University, 1976; M.S.N., Indiana University, 1986.

Steven C. Beering, President Emeritus of Purdue University B.S., University of Pittsburgh, 1954; M.D., 1958.

Lowell W. Beineke, Jack W. Schrey Professor of Mathematical Sciences (1965) B.S., Purdue University, 1961; M.A., University of Michigan, 1962; Ph.D., 1965.

David R. Bell, Associate Professor of Physiology and Biophysics B.S., Michigan State University; M.S.; Ph.D., University of Alabama.

John P. Bell, Associate Professor Emeritus of History A.B., Tulane University, 1957; Ph.D., 1968.

Michael S. Bendeke, Continuing Lecturer in Psychology (1994) B.S., St. Joseph College, 1987; M.S., Vanderbilt University, 1993; Ph.D., 1993.

Ana I. Benito, Assistant Professor of Spanish (2003) Licenciatura Universidad Autonoma, Spain, 1985; Licenciatura Universidad Alcala, Spain, 1994; M.A., Indiana University, 1997.

Robert M. Berger, Associate Professor of Chemistry (1989) B.S., University of Notre Dame, 1981; Ph.D., Purdue University, 1988.

Emily J. Bermes, Continuing Lecturer in Communication and Director of Basic Course (2000) B.S., Purdue University, 1998; M.S., 2000.

Thomas J. Bernard, Assistant Professor of Theatre (2003) B.A., University of Minnesota, 1991; M.F.A., Northern Illinois University, 1995.

James M. Berry, Associate Professor Emeritus of Business Administration B.S.E.E., University of Pittsburgh, 1956; M.S.B.A., Wichita State University, 1965; Ph.D., University of Iowa, 1970; PE (Indiana).

L. Dianne Bezdon, Senior Business Manager - Comptroller (1981) A.S.S.C., International Business College, 1960.

Mahmudur R. Bhuiya, Database Administrator (2003) B.A., Dhaka University; M.S.S., 1993; B.S., Purdue University, 2002; M.S., 2004.

Donna M. Bialik, Associate Professor of Economics and Dean of Students (1976) B.A., Notre Dame College, 1969; M.S.T., University of Missouri, 1973; Ph.D., 1978.

Reddi P. Bingi, **Associate Professor of Management Information Systems (1995)** B.Tech., S. V. University (India), 1983; M.Tech., Indian Institute of Technology, 1985; Ph.D., Texas Tech University, 1995.

Linda S. Bird, **Gift Processing and Database Coordinator (2000)** B.S., Saint Francis College, 1984.

Samantha S. Birk, **Instructional Designer (1988)** B.A., University of Northern Ohio, 1984; M.A., Ohio University, 1988.

Judith E. Blakemore, **Professor and Chair of Psychology and OAA Fellow (1986)** B.S., Western Illinois University, 1972; M.A., Northern Illinois University, 1978; Ph.D., 1978.

Travis A. Blume, **Coordinator of Degree Audit (2001)** A.S., Indiana University, 2001; B.G.S., 2004.

Gary B. Blumenshine, **Associate Professor of History (1971)** B.A., Northwestern University, 1966; M.A., University of Illinois, 1968; Ph.D., 1973.

Elliott J. Blumenthal, **Associate Professor of Biology and Faculty Athletic Representative (1989)** B.A., University of Denver, 1969; M.S., 1971; M.S., University of Colorado, 1981; Ph.D., University of Denver, 1984.

Stuart R. Blythe, **Associate Professor of English and Director of Writing (1999)** B.A., Purdue University, 1987; M.A., University of Illinois, 1989; Ph.D., Purdue University, 1997.

Melanie S. Bookout, **Associate Professor of Music (1996)** B.M., Mississippi College, 1978; M.M., Northwestern University, 1980; Ph.D., Louisiana State University, 1992.

Kenneth S. Bordens, **Professor of Psychology (1979)** B.A., Fairleigh Dickinson University, 1975; M.A., University of Toledo, 1978; Ph.D., 1979.

Michael L. Boschet, **Network Systems Programmer (1997)** A.S., Purdue University, 1998.

Michael J. Bosela, **Assistant Professor of Biology (2003)** B.A., Oberlin College, 1991; M.S., Michigan State University, 1995; Ph.D., North Dakota State University, 1999.

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Gary D. Steffen, Assistant Professor of Electrical Engineering Technology (1988) A.A.S., Purdue University, 1987; A.A.S., 1989; B.S., 1989; M.S., Ball State University, 2001.

Carol S. Sternberger, Professor and Chair of Nursing (1990) A.A.S., Purdue University, 1977; B.S., 1984; M.S., Ball State University, 1988; Ph.D., Purdue University, 1998.

Kenneth L. Stevenson, Professor Emeritus of Chemistry B.S., Purdue University, 1961; M.S., 1965; Ph.D., University of Michigan, 1968.

Jennifer L. Stewart, Continuing Lecturer in English (2004) B.A., Ball State University, 1997; M.A., 1999.

Sean M. Stewart, Technical Director (2001) B.S., Texas Woman's University, 1999; M.F.A., Tulane University, 2001.

Laurie B. Stoffer, Senior Programmer/Database Usage Analyst (1986)

Jeffrey M. Strayer, Continuing Lecturer in Philosophy (2002) B.F.A., University of Miami, 1974; M.F.A., School of the Art Institute of Chicago, 1978.

Deborah E. Stuart, Clinical Assistant Professor of Dental Education (1998) B.S., Purdue University, 1979.

Carolyn F. Stump, Assistant Professor of Economics (2003) B.S., Lehigh University, 1986; M.B.A., Oklahoma City University, 1993; Ph.D., Lehigh University, 1999.

Jason G. Summers, Assistant Professor of Spanish (2003) B.A., Western Kentucky University, 1989; M.A., Bowling Green State University, 1997; Ph.D., Indiana University, 2001.

Shauna E. Summers, Personal Counselor (2006) B.A., Cedarville College, 1998; M.A., 2002; Ph.D., Southern Illinois University Carbondale, 2005.

Hao Sun, Associate Professor of Linguistics (2002) B.A., Shanghai International Studies University, 1982; M.A., Warwick University (UK), 1990; M.A., University of Arizona, 1993; Ph.D., 1998.

Jack A. Sunderman, Associate Professor Emeritus of Geology B.S., Purdue University, 1951; Ph.D., Indiana University, 1963; M.S., University of Michigan, 1965.

Nichaya Suntornpithug, Assistant Professor of Business (2004) B.B.A., Thammasat University, (Thailand) 1992; M.B.A., University of Memphis, 1996; Ph.D., 2004.

Richard C. Sutter, Assistant Professor of Anthropology (1998) B.S., State University of New York-Buffalo, 1988; M.A., 1991; Ph.D., University of Missouri Columbia, 1997.

Rudy G. Svoboda, Associate Professor of Mathematical Sciences (1970) B.S., Northern Illinois University, 1966; M.S., Ohio University, 1967; Ph.D., Purdue University, 1971.

Terri J. Swim, Assistant Professor of Education (2002) B.S., Purdue University, 1991; Ph.D., University of Texas, 1997.

David E. Switzer, Associate Professor of Communication (1978) B.A., Purdue University, 1970; M.A., University of Illinois, 1971; Ph.D., 1974.

Daryoush Tahmassebi, Assistant Professor of Organic Chemistry (2005) B.S., Shahid Beheshti University (Iran), 1997; M.S., 1997; Ph.D., 1997.

Carol A. Tanner, Assistant Director of Personnel and Professional Development, Continuing Studies (2006) A.S., Indiana University, 1983; B.G.S., 1998.

Jonathan D. Tankel, Associate Professor of Communication (1995) B.A., Bard College, 1973; M.A., University of North Carolina, 1976; Ph.D., University of Wisconsin, 1984.

Sami K. Tannous, Assistant Professor of Construction Engineering Technology (2003) B.S., Pittsburg State University, 1991; M.S., 1994; Ed.S., 1995.

Diane E. Taub, Professor and Chair of Sociology (2004) B.S., East Tennessee State University, 1975; M.A., 1977; Ph.D., University of Kentucky, 1986.

Louise A. Teague, Special Projects Coordinator (2003) B.A., Anderson College, 1970; M.A., Ball State University, 1972.

Larry J. Temenoff, Telecommunications Network Analyst (1990) A.A.S., United Electronics Institute, 1968.

Mark C. Temte, Associate Professor of Computer Science (1983) B.A., Luther College, 1969; M.A., University of Maryland, 1971; Ph.D., 1975.

Jay S. Thayer, Assistant Director of Development (1997) B.A., Indiana University, 1974.

Chad L. Thompson, Associate Professor of Linguistics (1991) B.A., University of Alaska, 1974; M.A., 1977; Ph.D., University of Oregon, 1989.

Elizabeth A. Thompson, Associate Professor of Electrical Engineering (1999) B.S.W.E., The Ohio State University, 1981; M.S., University of Dayton, 1995; Ph.D., 1999.

David J. Thunte, Professor Emeritus of Computer Science B.S., Loras College, 1967; M.S. University of Kansas, 1969; Ph.D., 1974.

Roberta A. Tierney, Professor Emerita of Nursing B.S.N., Loyola University, 1966; M.S.N., University of Illinois, 1971; J.D., University of Toledo, 1983.

Judy A. Tillapaugh, Director of Wellness/Fitness (1995) B.S., Purdue University, 1982.

James J. Tobolski, Professor Emeritus of Biology B.S., Michigan State University, 1958; M.For., Yale University, 1961; Ph.D., Michigan State University, 1968.

Zelimir Todorovic, Assistant Professor of Business (2004) B.E.S., University of Waterloo, 1988; M.B.A., Wilfrid Laurier University, 2000; Ph.D., University of Waterloo, 2004.

Kirk A. Tolliver, Payroll Manager and Immigration Specialist (1987) B.A., Indiana University, 1982; M.B.A., 1991.

James G. Toole, Assistant Professor of Political Science (2002) B.A., Haverford College, 1987; Ph.D., Brandeis University, 2000.

Tammy R. Toscos, Continuing Lecturer in Computer Science (2002) B.S., Indiana University, 1988; M.S., Purdue University, 2001.

Douglas W. Townsend, Professor and Associate Chair of Mathematical Sciences (1976) B.S., The Ohio State University, 1970; M.S., University of Illinois, 1975; Ph.D., 1976.

Gary L. Travis, Graphic Designer and Art Illustrator (1989) B.F.A., Indiana University, 1999.

Shari S. Troy, Assistant Professor of Theatre History (2003) B.A., Boston University, 1980; M.A., City University of New York, 1996; Ph.D., 2002.

Cheryl B. Truesdell, Librarian and Associate Director (1983) B.A., Indiana University, 1978; M.L.S., 1980.

John E. Tryon, Professor Emeritus of Manufacturing Technology B.S., Purdue University, 1939.

Wen-hui Tsai, Professor Emeritus of Sociology (1975) B.A., National Taiwan University (China), 1964; M.A., University of California, 1970; Ph.D., 1974.

Jeffrey S. Tungate, Associate Head Men's Basketball Coach (2005) B.A., Oakland University, 1993.

David L. Turnipseed Jr., Associate Professor of Business Administration (1992) B.S., University of Alabama, 1973; M.B.A., 1975; Ph.D., 1987.

Bart L. Tyner Jr., Webmaster (1998) A.B., Wabash College, 1989.

Sally A. Uchtman, Administrative Assistant to the Chancellor (1990) A.G.S., Indiana University, 1998.

Emmanuel E. Udoh, Assistant Professor of Computer Science (2001) B.Sc., University of Ife, Nigeria, 1982; M.Sc., University of Muenser, Germany, 1989; Ph.D., University of Srlangen, Germany, 1994; M.S., Troy State University, 2000.

Georgia W. Ulmschneider, Associate Professor of Political Science and Prelaw Advisor (1983) B.A., DePauw University, 1975; J.D., Washington University, 1978.

Audrey A. Ushenko, Professor of Visual Arts (1988) B.A., Indiana University, 1965; M.A., Northwestern University, 1967; Ph.D., 1979.

Sushil K. Usman, Associate Professor Emeritus of Sociology and Anthropology B.A., Lucknow Christian College, 1959; M.A., Lucknow University, 1961; M.A., University of Minnesota, 1967; Ph.D., Case Western Reserve University, 1976.

William E. Utesch, Associate Professor of Education and Chair of Professional Studies (1991) B.A., Eastern Illinois University, 1981; M.Ed., 1984; Ph.D., Purdue University, 1989.

Hermine J. van Nuis, Professor Emerita of English A.B., Calvin College, 1963; M.A., University of Michigan, 1968; Ph.D., 1972.

Robert C. Vandell, Assistant Professor of Mathematical Sciences (1996) B.S., University in Virginia, 1980; M.S., Miami University, 1986; Ph.D., Western Michigan University, 1996.

Karen L. VanGorder, Business Advisor for Small Business Development Center (2006) B.S., Indiana University, 1980.

Lesa R. Vartanian, Associate Professor of Psychology and Assistant Faculty Athletic Representative (1997) B.A., Michigan State University, 1990; M.A., Northern Illinois University, 1993; Ph.D., 1997.

Desiderio A. Vasquez, Associate Professor of Physics (1993) B.S., Universidad Catolica del Peru, 1982; Ph.D., University of Notre Dame, 1989.

James F. Vernon, Assistant Professor of Jazz Studies and Saxophone (2002) B.M., Indiana University, 1993; M.M., University of Denver, 1997.

Randall S. Vesely, Assistant Professor of Education (2006) B.A., University of Wisconsin, 1996; M.S., 2002; Ph.D., 2005.

Joyce K. Vetter, Instructor in Mathematical Sciences (1990) B.S., Central Michigan University, 1969; M.S., Western Michigan University, 1988.

Aurele J. Violette, Associate Professor Emeritus of History B.A., Bowdoin College, 1963; M.A., The Ohio State University, 1964; Ph.D., 1971.

Judith L. Violette, Librarian and Director of Library Services (1974) B.A., The Ohio State University, 1966; M.L.S., Indiana University, 1973.

Nancy E. Virtue, Associate Professor of French (1993) B.A., Assumption College, 1983; M.A., University of Wisconsin, 1987; Ph.D., 1993.

Robert J. Visalli, Assistant Professor of Biology (2003) B.S., Indiana University, 1986; Ph.D., University of Wisconsin, 1992.

Eric Vitz, Coordinator of Student Computing (2002) B.S., Great Lakes Christian College, 1995.

Scott M. Vitz, Coordinator of Academic Computing (2000) B.R.E., Great Lakes Christian College, 1995; M.A., Purdue University, 1998.

Gerard Volland, Professor of Mechanical Engineering; Dean of the College of Engineering, Technology, and Computer Science; Director of the Division of Organizational Leadership and Supervision (2003) B.S., University of California, 1971; M.S., 1973; Ph.D., Tufts University, 1989.

Kimberly M. Wagner, First Year Experience Program Assistant (2004) B.A., Purdue University, 2001; M.P.A., Indiana University, 2005.

Linda J. Wagner, Continuing Lecturer in Mathematical Sciences (1996) B.S., University of Illinois, 1973; M.S., 1978; A.S., 1989.

Karen S. Wakley, Assistant Professor Emerita of Office Administration B.S., Ball State University, 1963; M.S., Indiana University, 1965; M.A.Ed., Ball State University, 1979.

Matthew P. Walsh, Assistant Professor of Mathematical Sciences (2002) B.S., University of Waterloo, Canada, 1999; Ph.D., Auburn University, 2002.

Steven J. Walter, Distinguished Professor of Systems Engineering and Director of the Center for Systems Engineering (2006) B.S., University of Maryland, 1981; M.S., University of Colorado, 1986; Ph.D., 1990.

Irene A. Walters, Executive Director of University Relations and Communications (1995) B.S., Boston University, 1964.

Gang Wang, Assistant Professor of Physics (2003) B.S., University of Science and Technology of China, 1996; Ph.D., Northwestern University, 2003.

Guoping Wang, Assistant Professor of Computer Engineering (2003) B.S., Tsinghua University, China, 1988; M.S., Nanjing University, China, 1991; Ph.D., University of Oklahoma, 2003.

Caroline R. Ward, Banner SIS Programmer and Analyst (2004) A.S., Purdue University, 1982; B.S., 1984; M.S.Ed., 1998.

Linda J. Wark, Associate Professor of Human Services (2002) B.A., Purdue University, 1981; M.S., 1986; Ph.D., 1990.

Michael A. Wartell, Professor of Chemistry and Chancellor (1993) B.S., University of New Mexico, 1967; M.S., Yale University, 1968; Ph.D., 1971.

Ana M. Waskiewicz, Accommodations Specialists/Counselor (2003) B.S., Purdue University, 1989; M.S., 1999.

Evelyn R. Waters, **Assistant Professor Emerita of Consumer and Family Sciences** B.S., Ball State University, 1962; M.A., 1968.

Cecilia A. Weakley, **Assistant Professor of Mathematical Sciences (1987)** A.B., Goucher College, 1968; M.A., Wesleyan University, 1970; Ph.D., University of North Carolina, 1978.

W. Douglas Weakley, **Associate Professor of Mathematical Sciences and Director of Graduate Programs (1986)** B.S., George Mason University, 1974; M.S., Northwestern University, 1979; Ph.D., 1980.

Kathleen J. Weatherford, **Director of International Programs (2005)** B.A., Earlham College, 1983; M.A., University of Rochester, 1985; Ph.D., 1989.

Richard H. Weiner, **Associate Professor of History (2000)** B.A., University of Massachusetts, 1988; M.A., University of California, Irvine, 1992; Ph.D., 1999.

Anne C. Weissner, **Communications Specialist (2000)** B.A., Indiana University of Pennsylvania, 1999

Andrew D. Welch, **Production Artist and Graphic Designer (2004)** B.S. Purdue University, 2000; B.S., Indiana University, 2003.

Worth H. Weller, **Continuing Lecturer in English (2000)** B.A., Duke University, 1968; M.A., Indiana University, 2002.

John F. Wellington, **Professor of Management and Dean of the Richard T. Doermer School of Business and Management Sciences (2000)** B.S., Gannon College, 1967; M.S., Lehigh University, 1968; Ph.D., SUNY at Buffalo, 1977.

Joel M. D. Wenger, **Director of Financial Aid (2001)** B.A., Goshen College, 1993.

L. Leigh Westerfield, **Continuing Lecturer in English (2000)** B.A., Indiana University, 1978; M.A., 1981; Ph.D., 1989.

James E. Whitcraft, **Graphic Designer (1987)** B.A., Purdue University, 1985.

Andrew A. White, **Field and Laboratory Supervisor (2003)** B.A., Indiana University, 1993; M.A., Southern Illinois, 1999.

Samuel K. Whiteman, **Systems Programmer II (1984)** A.A.S., Purdue University, 1973.

Roberta B. Wiener, **Dean Emerita of Education and Professor Emerita of Education** B.A., Brooklyn College, 1957; M.S., 1961; M.S.W., Adelphi University, 1988; Ed.D., Hofstra University, 1973.

Jane R. Wilks, **Director of Leadership Fort Wayne (1988)** B.S., Miami University, 1967.

Katherine M. Willock, Associate Professor of Nursing and Director of Graduate Programs (2005) A.D.N., North Iowa Area Community College, 1980; B.S., University of Texas, 1988; M.S., Texas Women's University, 1990; Ph.D., Kansas State University, 1998.

Mandi L. Witkovsky, Faculty Support Consultant, Information Technology Services (1999) B.S., Indiana University, 2003.

Sean M. Witkovsky, Network Systems Programmer (1996) A.S., Purdue University, 2001.

Danielle L. Witzigreuter, Coordinator of Student Government (2005) B.A., Ball State University, 1998; M.A., 2000.

Michael R. Wolf, Assistant Professor of Political Science (2001) B.A., Michigan State University, 1992; M.A., Akron University, 1995; Ph.D., Indiana University, 2002.

David W. Wood, Director of Distance Learning and Weekend College for the Division of Continuing Studies (2001) M.S.M., Indiana Wesleyan University, 2001.

James D. Woolf, Professor Emeritus of English A.B., College of the Ozarks, 1942; A.M., University of Michigan, 1949; Ph.D., Vanderbilt University, 1953.

Warren W. Worthley, Professor Emeritus of Mechanical Engineering Technology B.S.M.E., Ohio University, 1957; M.S., Michigan State University, 1958; D.Eng., University of Detroit, 1972; PE (Indiana).

Linda M. Wright-Bower, Assistant Professor of Music (1987) B.A., University of Akron, 1977; M.S., 1983; Certificate, DePaul University, 1984.

Betty L. Yockey, Administrative Assistant to the Vice Chancellor for Academic Affairs (1981)

David M. Young, Professor of Psychology (1976) B.A., Whittier College, 1971; M.S., University of Utah, 1974; Ph.D., 1976.

Nashwan T. Younis, Professor of Mechanical Engineering (1988) B.S., University of Mosul (Iraq), 1977; M.S., University of Nebraska, 1982; Ph.D., Iowa State University, 1988.

Rudy Yovich, Sports Information Director (2003) B.A., Edinboro University of Pennsylvania, 1988.

Laura A. Zeigler, Assistant Director of Admissions (1996) B.S., Pennsylvania State University, 1993; M.S.Ed., Indiana University, 1999.

Pamela R. Zepp, Computer Support Training Coordinator (1996) B.S., Indiana University, 1996; M.A., Purdue University, 2005.

Jiixin Zhao, Assistant Professor of Mechanical Engineering (2002) B.S., University of Science and Technology of China, 1995; M.S., University of Missouri Rolla, 1997; Ph.D., Purdue University, 2002.

Tianxia Zhao, Assistant Professor of Electrical Engineering (2005) B.S., Sichuan University, 1993; M.E., National University of Singapore, 1999; Ph.D., University of Houston, 2003.

Stephen J. Ziegler, Assistant Professor of Public and Environmental Affairs (2003) B.S., Texas Christian University, 1991; J.D., Thomas M. Cooley School of Law, 1997; M.A., Washington State University, 2001; Ph.D., 2003.

Peter T. Zonakis, Associate Professor Emeritus of Dental Auxiliary Education D.D.S., Indiana University, 1961.

Dianna L. Zook, Instructor in Mathematical Sciences (1988) B.A., University of Steubenville, 1977; M.A., Kent State University, 1979.

Yvonne M. Zubovic, Associate Professor of Mathematical Sciences (1991) B.S., University of Akron, 1981; M.S., 1983; Ph.D., The Ohio State University, 1988.

Academic Calendar

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- [Summer Semester 2007](#)
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2006-2007 Academic Calendar

Fall Semester 2006

Monday, Aug. 21
Friday, Sept. 1
Tuesday, Sept. 5
Monday-Tuesday, Oct. 9-10
Tuesday, Nov. 21

Classes Begin
Classes Suspended at 4:30 p.m. (Labor Day)
Classes Resume
Fall Recess
Thanksgiving Recess Begins After Last Class

Monday, Nov. 27
Monday-Sunday, Dec. 11-17

Classes Resume
Final Exam Week/Last Week of Classes

Spring Semester 2007

Monday, Dec. 18

Spring Semester Begins

Winter Intersession

Monday, Dec. 18
Friday-Tuesday, Dec. 22-26
Wednesday, Dec. 27
Monday, Jan. 1
Tuesday, Jan. 2
Sunday, Jan. 7

Classes Begin
Holiday Recess
Classes Resume
Holiday Recess
Classes Resume
Classes End

Spring Session

Monday, Jan. 8
Monday, Jan. 15
Monday, March 5
Monday, March 12
Friday, April 6
Monday, April 9
Monday-Sunday, April 30-May 6
Wednesday, May 9

Classes Begin
Martin Luther King Jr. H
Spring Recess Begins
Classes Resume
Classes Suspended at 4:30
Classes Resume
Final Exam Week/ Last W
Tentative Date of Comm

Summer Semester 2007

Monday, May 7

Summer Semester Begins

Summer Session I

Monday, May 14
Friday, May 25
Tuesday, May 29
Friday, June 22

Classes Begin
Classes Suspended at 4:30
Classes Resume
Classes End

Summer Session II

Monday, June 25
Wednesday, July 4
Friday, July 6
Monday, July 9
Friday, Aug. 3

Classes Begin
Independence Day Recess
Independence Day Recess
Classes Resume
Classes End

Summer Session Ends

Sunday, Aug. 19

Summer Semester Ends

2007-2008 Academic Calendar

Fall Semester 2007

Monday, Aug. 20
Friday, Aug. 31
Tuesday, Sept. 4
Monday-Tuesday, Oct. 8-9
Tuesday, Nov. 20
Monday, Nov. 26
Monday-Sunday, Dec. 10-16

Classes Begin
Classes Suspended at 4:30 p.m. (Labor Day)
Classes Resume
Fall Recess
Thanksgiving Recess Begins After Last Class
Classes Resume
Final Exam Week/Last Week of Classes

Spring Semester 2008

Monday, Dec. 17

Spring Semester Begins

Winter Intersession

Monday, Dec. 17
Monday-Tuesday, Dec. 24-25
Wednesday, Dec. 26
Monday-Tuesday, Dec. 31-Jan. 1
Wednesday, Jan. 2
Sunday, Jan. 13

Classes Begin
Holiday Recess
Classes Resume
Holiday Recess
Classes Resume
Classes End

Spring Session

Monday, Jan 14
Monday, Jan. 21
Monday, March 10
Monday, March 17
Friday, March 21

Classes Begin
Martin Luther King Jr. Holiday
Spring Recess Begins
Classes Resume
Classes Suspended at 4:30 p.m.

Monday, March 24
Monday-Sunday, May 5-11
Wednesday, May 14

Classes Resume
Final Exam Week/ Last W
Tentative Date of Comm

Summer Semester 2008

Monday, May 12

Summer Semester Begins

Summer Session I

Monday, May 19
Friday, May 23
Tuesday, May 27
Friday, June 27

Classes Begin
Classes Suspended at 4:30 p.m.
Classes Resume
Classes End

Summer Session II

Monday, June 30
Friday, July 4
Monday, July 7
Friday, Aug. 8

Classes Begin
Independence Day and Weekenda
Classes Resume
Classes End

Summer Session Ends

Sunday, Aug. 24

Summer Semester Ends

Campus Map

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