

# IUPU Columbus

## Welcome to the Indiana University-Purdue University Columbus (IUPUC) Bulletin!

### Mission

IUPUC's mission is to be the first choice for those who seek a small university campus experience in south central Indiana emphasizing intellectual and personal development, community engagement, and preparation to enter the global workforce.

## Overview

Established in 1970, Indiana University-Purdue University Columbus (IUPUC) is located one hour south of Indianapolis. While Columbus has a population of only 45,000, it is ranked sixth in the nation for architectural innovation and design by the American Institute of Architects. Visitors will find more than 70 buildings and pieces of public art by internationally noted architects and artists, including I.M. Pei, Eliel Saarinen, Eero Saarinen, Richard Meier, Harry Weese, Dale Chihuly, and Henry Moore. Columbus is also home to the Indiana University Center for Art and Design, which opened in 2011.

### Students and faculty

IUPUC primarily serves students who live in Bartholomew, Brown, Decatur, Jackson, Jefferson, Jennings, Johnson, Ripley, Shelby, and other counties in southern Indiana, although it has begun to attract a growing number of students from outside the state of Indiana.

For the 2015-16 academic year, IUPUC served more than 1,700 undergraduate and graduate students. Many students complete their entire degree programs on the IUPUC campus. Other students complete their first year or two at IUPUC and then transfer to Indiana University-Purdue University Indianapolis (IUPUI) or Indiana University's Bloomington campus to complete degree programs that are not currently offered on the Columbus campus.

- About 64 percent of IUPUC undergraduate students carry a full-time academic load. In comparison, 69 percent of its graduate students carry part-time academic loads. At 67 percent, the majority of its students are 24 years of age or younger, while 33 percent are 25 years of age or older. Of the graduate students at IUPUC, 78 percent are 25 or older. Female students comprise 66 percent of the undergraduate population and 69 percent of the graduate student population.
- IUPUC has 66 full-time faculty members, 20 of whom are tenured and 13 of whom are tenure-track, in addition to over 100 part-time adjunct faculty. On average, these instructors teach 77 online and 306 on-campus courses in Columbus each fall and spring. A number of courses, however, are taught off-campus at learning centers in Seymour and Greensburg.
- IUPUC works closely with its educational partner, Ivy Tech Community College of Columbus, to develop articulation agreements so that associate degree holders can apply their Ivy Tech credits toward an

Indiana University or Purdue University bachelor's degree.

The advantages of an IUPUC education include: (1) a welcoming campus that is geographically convenient to where southern Indiana students live and work; (2) the ability to earn affordable, globally recognized IU and PU degrees in Columbus; and (3) a cost-effective alternative to relocating and/or commuting to campuses in Bloomington, Indianapolis, or elsewhere.

### Degree programs

Currently, IUPUC offers undergraduate degrees in business, communication studies, education, English, general studies, mechanical engineering, nursing, psychology, and sociology. IUPUC also offers two graduate degree programs: the Master of Business Administration and Master of Arts in Mental Health Counseling.

Many IUPUC students complete general education, elective, and some required courses and then transfer to IUPUI to complete degrees that are not offered in their entirety on the Columbus campus. These students pursue a variety of academic majors and degrees, including informatics, computer science, physical education, an array of health science disciplines, criminal justice, public and environmental affairs, and many other fields. IUPUC graduates also continue their educations and enroll in law, medicine, physical therapy, social work, and other graduate programs at IUPUI and other campuses.

### Regional focus

IUPUC has a long-standing tradition of partnering with key K-12, business, and civic leaders to develop responsive educational programs that are aligned with regional needs. IUPUC received a substantial grant from Duke Energy in 2011, for example, to implement a science, technology, engineering, and math (STEM) teaching and learning initiative for K-6 school districts throughout southern Indiana.

Because the region IUPUC serves has a strong niche in advanced automotive manufacturing, there is a growing need for professional engineers in the area workforce. To help meet that need, the Purdue University Bachelor of Science in Mechanical Engineering (BSME) program was established in 2011. By providing this IUPUI program, IUPUC is the only university in the southern half of the state to offer a four-year degree in engineering. With support from two private funding sources, IUPUC now offers an endowed scholarship for female engineering students.

While many IUPUC students begin their studies in Columbus and transfer to IUPUI or other campuses to complete their degrees, data show that IUPUC graduates have deep roots in south central and southeastern areas of the state. The majority of IUPUC students have lived, worked, and raised families in southern Indiana for generations and continue to do so after they graduate.

## IUPUC Programs

### Undergraduate Certificate Programs

Certificate programs resemble minors but generally require more credit hours. Some certificate programs are stand-alone programs, which means that a student does

not have to be working toward a two- or four-year degree to complete a certificate program. Specific requirements can be found in the section for the division offering the certificate.

### **Bachelor's Degree (Baccalaureate) Programs**

The typical undergraduate degree program is either a bachelor of science or a bachelor of arts degree. The degree takes four years for full-time students and substantially longer for part-time students. IUPUC's baccalaureate degrees are awarded in the professional divisions and within the arts and sciences.

### **Master's Degree Programs**

Outstanding students who wish to continue their education may begin graduate work after the completion of their bachelor's degrees. Most master's degree programs require applicants to take standardized national examinations. To be considered for admission, a four-year baccalaureate degree or its equivalent from an accredited institution is required.

## **Division of Education**

The mission of the Indiana University School of Education at Columbus is to improve teaching, learning, and human development in a diverse, rapidly changing, and increasingly technological society. We prepare reflective, caring, and highly skilled educational practitioners and scholars who lead in their chosen professions; participate in dialogue and inquiry into school change; and work in partnership with a range of constituents to improve teaching and learning at the local, national and international levels. To serve the region in which it is situated, the IUPUC Education Programs focus on Learner Centered Education within the context of a professional community and facilitate post-secondary investigations into the teaching profession. Students will recognize the interdependency of professionals within the educational community and will come to regard teaching as a complex, multidimensional act that requires many different types of knowledge, interactions, behaviors and decision-making abilities.

### **Accreditation**

National Council for Accreditation of Teacher Education, Nationally Recognized

### **Contact Information**

Division of Education at IUPUC  
4601 Central Avenue, CC155  
Columbus, IN 47203  
Ph: 812.348.7325  
Email: education@iupuc.edu

### **Degree Programs**

Bachelor of Science in Elementary Education K-6

K-6 License Addition Options:  
English as a New Language  
Special Education

Content Coursework Options:  
English/Language Arts  
Mathematics  
Science  
Social Studies

## **Undergraduate Degree Programs**

- Division of Business
- Division of Education
- Division of Liberal Arts
- Division of Mechanical Engineering
- Division of Nursing
- Division of Science
- General Studies Degree Program
- University College
- Center for Teaching and Learning
- Other Areas of Study

### **Division of Business**

The Indiana University-Purdue University Columbus Undergraduate Program in Business provides opportunities for breadth of education as well as a reasonable amount of specialization. The program subscribes to the principle that a significant portion of a student's academic program should be in general education subjects, complemented by focused study of the essential areas of business administration. This assures the planning of balanced study programs while enabling a student with an interest in one or more of the professional areas of business to specialize in those fields. Courses and assignments engage students in ethical decision making, diversity, corporate social responsibility, international business, and teamwork. An experiential learning requirement exposes students to real-world business practices.

### **Bachelor of Science Degree Programs**

#### **Bachelor of Science in Business Administration with a Concentration in Accounting**

The accounting curriculum prepares students for careers in corporate accounting, auditing, management consulting, taxation, and accounting for governmental and nonprofit organizations. In addition, it equips the future business executive with tools for intelligent analysis, planning, control, and decision making. Students study the methodology required to create and maintain accurate financial records of business transactions and the economic and managerial perspectives on the relationships between business activity, economic outcomes, and positive and negative evaluations of performance by preparing financial statements and reporting information such as business assets, liabilities, and operating expenses. The accounting curriculum helps students prepare to pass the Certified Public Accountant (CPA) exam and Certified Management Accountant (CMA) exam, and provides an excellent foundation for students who want to pursue graduate work in business, public administration, or law.

#### **Bachelor of Science in Business Administration with a Concentration in Finance**

As the most common professional background among the CEO's of the Fortune 500, finance as a body of knowledge allows students and practitioners to understand the value of business activities, and how to decide which activities to pursue. Finance as an academic concentration explains the connections between business activity, societal utility, money, and the capital markets. Every day, business

managers, investment managers, bankers, and individual investors around the globe make choices about buying, selling, or holding assets and liabilities, and the field of finance comprises the study of how these resources are best allocated and managed. Knowledge learned in the area of finance allows a business manager to understand how to measure the value of their resources, providing a basis for the manager to invest in business projects, to manage debt, or to reward shareholders with a dividend.

Concepts learned in finance will apply to business management, investment management, and personal financial acumen. Financial analysis and study will involve other areas such as marketing, forecasting, risk assessment, and psychology.

### **Bachelor of Science in Business Administration with a Concentration in Health Services Administration**

Health service professionals develop policies and programs that protect individuals, families, and communities. Demand for medical and health service managers is expected to grow by 23 percent through 2022. The Health Services Administration curriculum is a great educational option for students who are new to the health care and medical fields, pre-nursing students seeking an alternative to the Bachelor of Science in Nursing (BSN) degree, and RNs and other health care specialists interested in managerial career paths. Armed with a solid foundation of business management principles as well as specialized knowledge through coursework in Epidemiology, Community Health, Legal Issues in Health Care Administration and Health Systems Administration, students are prepared for a successful and effective career in health services administration.

### **Bachelor of Science in Business Administration with a Concentration in Management**

Society recognizes the importance of understanding both management itself and the complex nature of the organizations—in business, government, hospitals, and universities—in which managers operate. Management requires skill in coordinating people, processes, systems, and technology to generate desired outcomes for organizations. Effective business managers are proficient in supporting and enabling organizations to meet and exceed strategic priorities, goals, and objectives.

The management curriculum includes study of strategic management, organizational theory, human resource development, leadership, teamwork and diversity, and skills needed to address challenges in the global business environment. Through elective offerings students are able to pursue specialized areas such as project management concepts and theories, domestic and international supply chain management, corporate or international finance, marketing research and more.

### **Bachelor of Science in Business Administration with a Concentration in Marketing**

The study of marketing concerns all activities related to the marketing and distribution of goods and services from producers to consumers. Areas of study include customer behavior, the development of product offerings to meet consumer needs, pricing policies, institutions and channels of distribution (including retailers and wholesalers), advertising, selling, sales promotion,

research, and the management of marketing to provide for profitable and expanding businesses.

The marketing curriculum endeavors to provide the business community with broadly trained professionals who approach problems with a clear understanding both of marketing and of the interrelationships between marketing and other functions of the firm. Students majoring in marketing will be qualified for careers such as advertising, public relations, marketing communications, sales and sales management, marketing research, product management and distribution and retail management.

### **Minors**

#### **Business**

A minor in business can be a valuable addition to any major. The study of business helps students succeed in roles as citizens, consumers, and employees. It accentuates and develops skills in decision-making, understanding and improving processes, and interpersonal relations, and broadens perspectives in the workplace. A business minor can be particularly worthwhile for students who may someday hope to run their own business.

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## **Division of Liberal Arts**

A liberal arts education begins with the premise that one's world and one's self are at the core of the pursuit of knowledge. It leads to viewing the world from more than one perspective and learning something about its social, cultural, intellectual, and spiritual dimensions. Those different perspectives within the liberal arts encompass two major groups of academic disciplines: the humanities, which explore the history and experience of human culture; and the social sciences, which examine the social and material foundations of human life.

Regardless of the perspective, the focus in the liberal arts is on knowledge itself, on both its substance and the tools for pursuing it, on what is known and what is worth knowing. Skills for acquiring and generating knowledge, as well as the preservation of knowledge, are contained within the School of Liberal Arts curriculum.

Visit the IUPUC website to view [degree requirements](#) for the Division of Liberal Arts.

### **Bachelor of Arts in Communication Studies**

Students may complete the requirements for the Bachelor of Arts in Communication Studies at IUPUC. Communication studies students will learn about communication theories, research methods, and competencies from a variety of contexts: rhetoric, public address, organizations, family, health, and media. The department offers a diverse curriculum for students interested in majoring or minoring in Communication Studies. Students learn about the communication process inherent in the areas of interpersonal, group, organizational, public, and media studies.

Courses in Communication Studies aid students in enhancing their critical inquiry, oral performance, message design, problem-solving, and interpersonal skills. Students who pursue Communication Studies degrees are well-suited for graduate work in various areas of communication studies, humanities, and in professional

programs such as law and business. Course work also assists those students pursuing career fields: public relations, marketing, training and development, human resources, public affairs and social advocacy, and event planning.

### **Bachelor of Arts in English**

Students may complete the requirements for the Bachelor of Arts in English with a Concentration in Creative Writing or the Bachelor of Arts in English with a Concentration in Literature at IUPUC. The IUPUC Undergraduate Program in English provides opportunities for personal and professional achievements. Our multi-dimensional program offers courses in professional writing, creative writing and literature that seek to foster students' abilities to read closely, think deeply and critically, research effectively, and to write with clarity and purpose. Our English degrees prepare students for meaningful lives and a variety of careers.

### **Bachelor of Arts in English with Concentration in Creative Writing**

Creative Writing students will improve their creative expression through a range of courses and workshops. In addition, they will work closely with published faculty; read and critique a variety of experimental, canonical, and original texts; participate in intensive workshops while practicing the craft of writing with a community of writers; consider wider audiences for their creative work through internships, educational field trips and travel, readings, community projects, and capstone course. They should consider submitting original creative work to the university's student literary magazine *Talking Leaves*, as well as other venues. Students may aspire to publish an original book.

### **Bachelor of Arts in English with Concentration in Literature**

Literature students will read, discuss, and analyze a range of written works. For example, students may study historical complexities of Elizabethan drama in the plays of Shakespeare; views of American transcendentalists in New England such as Ralph Waldo Emerson and Henry David Thoreau; the golden age of high society and aristocracy in novels by Edith Wharton and Henry James; life in the southern United States by writers like William Faulkner, Tennessee Williams, and Flannery O'Connor; or the nuanced aesthetics of modernist and contemporary poetry and prose in the works of Gertrude Stein, Langston Hughes, Sylvia Plath, and Toni Morrison. In reading and analyzing works like these, students will develop broad and deep understandings of the human condition across many cultures. Students will sharpen critical thinking skills that will serve them well, personally and professionally.

### **Sociology**

Students may complete the requirements for the Bachelor of Arts in Sociology at IUPUC. Human beings are social animals. We live in groups and do most things with other people. Much of what we think, say, and do is influenced by what others expect of us and by how others treat us. Sociologists study the patterns of interaction between people in all sorts of settings: at work, at play, at home, etc. They try to clarify what is going on, what lies behind it, what is likely to come from it, and what might be done

differently. Their theories and research findings can provide insights into processes and events that affect us in our everyday lives.

Perhaps you have wondered why some families get along fine while others seem mired in problems, why some people get involved in criminal careers while others resist temptations, why some companies are much more productive than others, why some government programs succeed while others backfire. These are the kinds of issues sociologists look into in systematic ways.

### **Other Liberal Arts Degrees**

The following liberal arts programs are jointly offered by IUPUC and IUPUI. Successful IUPUC students automatically have access to specialized courses on the Indianapolis campus required for graduation.

#### **Anthropology**

Anthropology is the study of human culture, biology, and social interaction across time and place. It includes the archaeological investigation of past and present human material culture; ethnographic study of contemporary cultures around the world and in the United States; research into human evolution and the origins of human physical diversity; and analysis concerning the origins, structure, and social use of language.

#### **Geography**

Geography, like history, is a way of looking at the world. Whereas historians study variation through time, geographers study variation through space: how and why the earth's natural and human features vary from place to place. Underlying this spatial approach are such recurring themes as spatial diffusion of people, goods, and ideas; the significance of location in human interaction; the power of place in human conscience; and the interaction of physical and human processes to create landscapes. Geographers work at the intersection of social and natural sciences, using the concepts and methods of both to examine human-environmental relationships in their full complexity. This integrative approach is a hallmark of geography and one of its main attractions. Geographers can be found in a great variety of positions often not specifically identified as geographic: environmental management, urban planning, conservation, recreation and tourism, transportation planning, international affairs, and many others.

#### **History**

The Department of History offers students the opportunity to better understand the human social condition through the systematic study of the human past. A variety of courses are offered, dealing with the history of the United States, Europe, Latin America, and some non-Western areas. The history major not only provides opportunities to serve the avocational interest of the liberal arts student, but also provides a foundation for continued work at the graduate level. Courses in history serve the student admirably in fulfilling the tradition of a liberal education. They also provide a solid basis for professional training in fields such as law, business, environmental affairs, historic preservation, public administration, and government.

#### **Philosophy**

Philosophic inquiry aims, ultimately, at a general understanding of the whole of reality. It draws on the insights of the great historical philosophers, on what has

been learned in all other major fields of study, and on the rich perspectives embodied within ordinary ways of thinking. Philosophers address a diverse array of deep, challenging, and profoundly important questions. Examples include the nature of the self and of personal identity; the existence or nonexistence of God; the nature of time, mind, language, and science; the sources and limits of human knowledge; the nature of the good life; the foundations of state authority; the requirements of social justice; and the nature of art, beauty, and aesthetic experience. Philosophical questions are addressed not by reference to empirical information alone, but by means of analysis, synthesis, argument, and the construction and evaluation of philosophical theories.

### **Political Science**

Politics is about power: who has it and how it is used. The study of political science provides students with an understanding of the many different and intriguing ways in which power is given, taken, distributed, limited, manipulated, and used, and helps them better appreciate and understand the many different forms taken by systems of government around the world.

### **Religious Studies**

Religious studies offers students opportunities to explore the patterns and dimensions of the many different religious traditions of the world from the perspectives of the academic study of religion. The courses are designed to help students develop basic understandings of the many ways in which religions shape personal views of the world, create and sustain the communities in which we live, and interact with politics, economics, literature and the arts, and other structures of society. Through this curriculum, students are provided the skills that will allow them to understand religions as a part of the study of human history and traditional and nontraditional values.

### **Public and Environmental Affairs**

This discipline is dedicated to applied interdisciplinary learning combining the study of public affairs and environmental sciences. The following areas are covered by this discipline: criminal justice, environmental science and policy, finance and economics, law, nonprofit management, policy and administration, public safety, and urban affairs.

### **Criminal Justice, B.S.**

A degree in criminal justice gives students a broad understanding of the operations of the criminal justice system. Students take courses in research methods, criminological theory and policy, criminal law, courts, corrections, and policing. Students may also study such specialized topics as homicide, terrorism, juvenile justice, and cyber crime. A criminal justice major is a great option for any student who is interested in the criminal justice system or law, wants a rewarding career that involves helping others, and enjoys working and interacting with people.

### **Public Affairs, B.S.**

The Bachelor of Science in Public Affairs provides students with an overview of the issues that engage the public and nonprofit sectors such as: (1) how organization and management differ among sectors, (2) the tools required to solve public problems and undertake

leadership roles in the community, and (3) the policy processes that lead to effective decision making.

### **Minors available in Liberal Arts**

A minor can enhance the breadth and depth of your academic experience, strengthen your marketability and employment opportunities, or enable you to fulfill a life goal to simply learn more about a particular topic.

- \* Anthropology
- \* Communication Studies
- \* Creative Writing
- \* History
- \* Leadership Studies
- \* Literature
- \* Medical Sociology
- \* Sociology
- \* Women's Studies

## **Division of Nursing**

### **Mission**

The IUSON exists to lead the "knowledge work" of nurses today and tomorrow to positively influence the health of communities served by: inspiring learning through excellence in teaching; creating and advancing knowledge through science and research; shaping care through evidence-based practices; innovations and partnerships; and appreciating, developing, and recognizing faculty, staff, and students.

### **Core Values**

These core values are fundamental to the success of the nursing profession and the Indiana University School of Nursing community. They serve as the foundation for our work, how we interact with one another, and help guide the strategies we employ to fulfill our vision, mission, and strategic goals. We are supportive of one another's efforts, loyal to one another, and care for one another both professionally and personally. We embrace, own, and are energized by these core values.

### **Respect**

We create a positive environment by treating all people with mutual respect and sensitivity, recognizing the importance of their contributions and diversity.

### **Responsibility**

We accept responsibility for our actions.

### **Trust**

We foster trust by acting with honesty, integrity, and openness.

### **Dialogue**

We build community through dialogue by sharing and respecting our diversity of opinions, views, and expertise.

### **Accreditations, Licenses and Memberships**

National League for Nursing Accrediting Commission  
Commission on Collegiate Nursing Education  
American Nurses Credentialing Center's Commission on Accreditation

The School of Nursing is an agency member of the National League for Nursing's Council of Baccalaureate and Higher Degree Programs, Commission on Collegiate

Nursing Education (CCNE), as well as the Committee for Institutional Cooperation (CIC). The school is also a constituency member of the national League for Nursing and the American Association of Colleges of Nursing.

### Contact Information

Indiana University School of Nursing at IUPUC  
4601 Central Avenue, CC 250  
Columbus, IN 47203  
812-348-7250

### Traditional BSN Program

Traditional BSN program students complete coursework emphasizing health promotion, disease prevention, health restoration, and health maintenance. The curriculum reflects the current trends in health care, focusing on wellness/illness concepts and the delivery of care in both hospital and community based settings.

Applications and due dates for Columbus, Indianapolis, and Bloomington may be found at each campus' School of Nursing website. Students interested in nursing on another IU campus should consult the website of that campus for more information about nursing. *The admission process is competitive, and acceptance depends on the number of applicants and the applicant's ability to compete academically in the pool of applicants.*

[Degree Map](#)

### RN to BSN Degree Completion Program

This program option is offered on the IUPUC, IUPUI, and IUB campuses for nurses holding an associate degree or diploma in nursing from an accredited nursing program. Registered nurses seeking admission to the Indiana University School of Nursing must apply to the campus Office of Admissions and may apply to the program anytime throughout the academic year. Students who have previously attended an IU campus or who are graduates of the associate program at IU should contact the nursing academic counselor. Students who have attended another college or university must forward an official transcript to the campus Office of Admissions.

### Division of Science

#### Bachelor of Arts/Bachelor of Science in Psychology

Psychology is a science that studies behavior and mental processes, including perceptions, thoughts, feelings, and actions. Understanding human behavior is essential for improving the quality of life of individuals and improving relationships within and between societies.

There are many areas within psychology and many types of psychologists. Although about half of all psychologists work to help people with psychological problems, others seek new knowledge or apply their understanding of psychology to solve problems and improve the way things work.

Applied psychologists use psychological principles to help change behavior and solve real-world problems. For example, school psychologists help children adjust academically and socially, industrial/organizational psychologists suggest how companies can improve employee morale, human factors psychologists determine the best place to put gauges in an airplane cockpit, and clinical psychologists help people with mental disorders.

### [Bachelor of Arts/Bachelor of Science Degree Requirements](#)

#### Certificates

IUPUC offers a certificate in Case Management and a Certificate in Substance Abuse Counseling and Prevention. These certificates, which can help students prepare for positions as Case Managers and Substance Abuse Counselors, are available to students whether or not they are majoring in psychology.

[Case Management Certificate Requirements](#)

[Substance Abuse Counseling Certificate Requirements](#)

### General Studies Degree Program

The Bachelor of General Studies Degree is specifically designed for students who want a degree that combines IU's high academic standards with flexibility and convenience. The BGS allows students to customize their own degree programs. Students may select courses from a broad range of subjects to tailor their course work to personal interests, goals, or career needs. Earning a degree in general studies allows students to apply for and pursue advanced degrees in a variety of fields, increase earnings, advance in careers, build confidence, and become role models for their children

The core of each general studies degree is a broadly based education encompassing the arts and humanities; the social and behavioral sciences; and mathematics and natural sciences. The curriculum expands students' body of knowledge and awareness of major areas of human experience.

For more information regarding the Bachelor of General Studies program, visit this IUPUC [degree information](#) page.

### Center for Teaching and Learning Center for Teaching and Learning Resident Faculty

Catherine Brown, Director of the Center for Teaching and Learning

Marsha VanNahmen, Assistant Director of the Center for Teaching and Learning

#### Degree Programs

Degree programs are not offered by this center. The mission of the Center for Teaching and Learning (CTL) is to support learners of all ages and those who teach them. For more information regarding the role of the CTL, please visit the [Center for Teaching and Learning](#) web site.

### Other Areas of Study at IUPUC

Successful IUPUC students may choose to transfer to IUPUI to complete any of a large number of degree programs that cannot currently be completed in their entirety on the IUPUC campus. To help students complete these programs most efficiently, IUPUC aligns its curriculum with IUPUI so that IUPUC credits transfer to IUPUI. Support for these programs is provided by [University College](#) resident staff.

### Division of Mechanical Engineering

The Purdue University Bachelor of Science in Mechanical Engineering (BSME) program at IUPUC offers a unique engineering education. In the spirit of a responsive,

regional campus, IUPUC is focused on ensuring student success and meeting the educational needs of southeastern Indiana. Graduates are well-prepared for employment with major employers in the local market and beyond. They also have a firm foundation for graduate study and pursuing master's and Ph.D. degrees in diverse engineering disciplines.

The BSME program builds on the fundamental principles of science and engineering, including engineering theories, concepts, and practical applications so graduates have the skills to serve as innovative leaders and highly competent professionals.

### Why choose a mechanical engineering career?

- Mechanical engineering is an exciting discipline, with great potential for careers in traditional fields like propulsion, power generation, and automotive engineering as well as emerging enterprises, such as sustainable design, energy conversion, biomedical and forensic engineering, and advanced nanoscale materials. In the complex, ever-evolving world in which we live, the field of mechanical engineering offers tremendous opportunities!
- The skills required for mechanical engineers are diverse and emphasize the ability to work in collaborative design teams, technical competence, having a global perspective and an entrepreneurial spirit, sound managerial ability, and an understanding of societal forces governing new product development and the marketplace.
- BSME students at IUPUC may have the opportunity to minor in business or math, which can make a significant impact on post-graduation employment.
- Student research and internship opportunities with major employers in the engineering and advanced manufacturing sector are available for IUPUC's BSME students. Seniors in the program will complete design projects sponsored by local industry, for example, providing them with a professional experience requiring real-world problem-solving and the need to effectively communicate ideas and results—all before they graduate and enter the workplace.
- Mechanical engineers are in demand. Average entry-level salaries for mechanical engineering graduates are nearly \$59,000, according to the National Association of Colleges & Employers.

### For more information:

If you have questions about the BSME program at IUPUC or would like more information, please call 812.348.7271 or e-mail [engineering@iupuc.edu](mailto:engineering@iupuc.edu). For additional information, including required coursework and information on careers in engineering, you may also visit IUPUC's Mechanical Engineering program [online](#).

## University College

### Welcome to University College!

[University College](#) was founded to support new beginning and transfer students as they make the transition into IUPUC. University College offers a unique array of services for all entering students as well as opportunities to participate in programs that will help ensure academic success and campus engagement. University College

at IUPUC houses exploratory students, pre-engineering students, as well as many other students who ultimately finish their degrees in other divisions and/or campuses. Students remain in University College until they have met the necessary conditions for transfer to a degree-granting school or division.

Programs and services offered by University College focus on assisting students with the development of the knowledge and skills needed for success in the collegiate environment, including academic advising, academic support, career planning, first-year seminars, peer mentoring, and new student orientation. University College also offers several college readiness programs, which focus on helping high school students to become college bound.

## Graduate Degree Programs

Outstanding students wishing to continue their education may begin graduate work after the completion of their bachelor's degrees. Most master's degree programs require applicants to take standardized national examinations. The **IU MBA Program** at IUPUC requires students to take the [Graduate Management Admission Test](#) (GMAT) or the [Graduate Record Examination](#) (GRE). The **Master of Arts in Mental Health Counseling** program requires students to take the [Graduate Record Examination](#) (GRE) as part of the admission process. To be considered for admission to either program, a four-year bachelor's degree or its equivalent from an accredited institution is required.

### Master's Degrees

#### Master of Business Administration

The M.B.A program at Columbus is a 45 credit hour general management degree program. Courses are sequenced to maximize learning potential while balancing the work load to accommodate the needs of working students. To be considered for admission, a four-year bachelor's degree or its equivalent from an accredited institution is required. While an undergraduate business degree is not required, some preparatory work in mathematics, computing skills, and a business foundation, such as accounting and statistics, is expected. If such course work has been taken but is older than five years, demonstration of currency will be required and may be provided by taking Indiana University or Purdue University undergraduate courses, as suggested below, and earning above-average grades. The student is required to submit scores of the Graduate Management Admission Test (GMAT), which must be taken within the five years prior to applying to the program. If applicable, the student is also required to submit scores of the Test of English as a Foreign Language (TOEFL) and/or take the IUPUI language examination.

#### Master of Arts in Mental Health Counseling

The Indiana University master's degree in mental health counseling at Indiana University-Purdue University Columbus (IUPUC) is 60-credit hour program that prepares you for a career as licensed mental health providers. You will learn to assist individuals, groups, and families in maximizing their human potential and managing life challenges and transitions.

As graduate of our program, you will gain the knowledge, skills, and experiences needed to provide expert service guided by the values of ethical practice and respect for all people. The curriculum is consistent with accreditation guidelines and meets the criteria for preparing you for licensure as a mental health counselor in the State of Indiana.

Courses are sequenced so that you can complete the degree on a full- or part-time basis. In addition to course work, you will complete the following field experiences:

- 100-hour practicum
- 600-hour internship
- 300-hour advanced internship

## Undergraduate Programs

### Undergraduate Certificate Programs

Certificate programs resemble minors but generally require more credit hours. Some certificate programs are stand-alone programs, which means that a student does not have to be working toward a two- or four-year degree to complete a certificate program. Specific requirements can be found in the section for the division offering the certificate.

### Bachelor Degree (Baccalaureate) Programs

The typical undergraduate degree program is either a bachelor of science or a bachelor of arts degree. The degree takes four years for full-time students, and substantially longer for part-time students. IUPUC's bachelor degrees are awarded in the professional divisions and within the arts and sciences.

## Admission

The best and most complete information source on admission standards and procedures is the IUPUC Admissions [website](#).

### Zachary's Law

The state of Indiana maintains a registry of individuals who have been convicted of sex offenses committed against minors. As a number of degree programs and specific courses either prepare students to work with minors or place them in contact with minors as a part of the course, enrollment in those courses or programs is not available to anyone who appears on the Sex Offender Registry. Consult individual division sections to see if appearance on the registry will be a barrier to enrollment.

### Criminal Activity Disclosure

IUPUC is committed to maintaining a safe environment for all members of the university community. As part of this commitment, the university requires applicants who have been convicted of any felony or a misdemeanor such as simple battery or other convictions for behavior that resulted in injury to a person(s) or personal property to disclose this information as a mandatory step in the application process. A previous conviction or previous conduct does not automatically bar admission to the university, but does require review. For more information visit the [Admissions website](#).

## Freshman Admission and Qualifications

IUPUC offers beginning freshmen enrollment as degree-seeking or visiting students.

### Degree-Seeking Students

If you wish to enter an undergraduate certificate, associate, or bachelor degree program, apply as a degree-seeking student (even if you are unsure of which degree program). As a beginning freshman, you must not have enrolled in any college, business, or vocational school after high school graduation.

For a beginning student, we will examine your high school record including courses completed, grades earned, and standardized test results. The trend in your grades and the difficulty of your courses are also important. The most important factors in our decision will be the courses you attempted and the grades you earned.

### High School Graduates Admission Requirements

#### Regular Admission

- Graduated from high school or will graduate before enrolling at IUPUC.
- Provide the results of your SAT or ACT, and the required writing section of the test.
- Indiana high school graduates are expected to complete Core 40. (Academic Honors diploma is highly encouraged.)

For students who have completed Core 40 with a C average or higher in all Core 40 courses, SAT combined math and verbal (critical reading) combined scores should be 900 or higher; ACT composite should be 19 or higher.

Applicants who have earned Academic Honors diplomas will be considered fully qualified regardless of test scores; however, scores must be provided.

We recommend that all high school students complete the following: four years of English; four years of mathematics (including second year algebra), three years of social sciences; three years of laboratory science; four years of additional college preparatory courses selected from English, mathematics, social sciences, laboratory sciences, or foreign language.

Returning adult students should note that SAT or ACT scores are not required, but a high school transcript is required.

#### Conditional Admission

If you do not meet the above criteria, you will be considered for conditional acceptance based on other factors that will indicate your potential for success at IUPUC.

If you have significant deficiencies in either academic preparation or performance, we will defer your acceptance until you complete designated courses at Ivy Tech or another two-year college. A deferral letter outlining the courses to complete will be sent to you.

### High School Equivalency and GED Admission Requirements

Students enrolling at IUPUC who have not attended college after earning a High School Equivalency (HSE) diploma or a GED are considered beginning freshmen students. The following are the admission requirements:

- Earned the HSE or GED with a score of 53 (530 on new scale) or higher. If your GED score is below 53 (530), you may be deferred to the Community College of Indiana. (See above section on conditional admission.)
- If you are under 19 years of age, you must provide the results of an ACT or SAT I test.

### Students Visiting in the Summer After High School

Students graduating from high school may enroll at IUPUC as a visiting student for the second summer session. As a student applying under this status, you must do the following:

- Verify with the Admissions Office of the institution you will attend in the fall that they will accept IUPUC course credits.
- Submit a copy of your letter of acceptance from your future institution.
- Submit an IUPUC application online as a visiting student, preferably before the end of May.
- Submit the application fee.

**Note:** According to federal regulations, visiting students are not eligible for financial aid. To apply, please complete the application online through [admissions](#).

## Transfer Admission and Qualifications

### Transfers from Other IU Campuses

A student at another Indiana University campus, whether coming to IUPUC on a temporary or permanent basis, should contact the IUPUC Office of Admissions for help in beginning the intercampus transfer process.

### Transfers from Other Universities

A student from any other college or university must complete an official undergraduate application through the IUPUC Office of Admissions. Applicants are required to provide official transcripts from all post-secondary institutions they have attended.

IUPUC offers transfer students two categories of undergraduate admission (degree-seeking and visitor).

### Degree-Seeking Students

If you wish to enter an undergraduate degree program, you will apply as a degree-seeking student (even if you are unsure of which degree program).

### Admission Standards General Policy

For regular admission you must have a cumulative grade point average of 2.0 on a 4.0 scale and be eligible to return to your previous college. If you do not have a 2.0 or you are not eligible to return to your former school, you must apply for reinstatement through IUPUC.

### Admission on Probation

If your grade point average is below 2.0, and you are eligible to return to your previous college, you may be considered for admission on probation.

Credentials needed:

- Official college transcript from every college attended. An official copy is one that has the embossed or raised seal of the school. Fax copies, photocopies, and grade reports are not considered official.

- High school transcript, High School Equivalency, or GED if you have fewer than 26 hours of transferable work. (We will accept a faxed high school transcript provided it is sent directly from the high school with the school fax number on the faxed pages.)

Please note that you are responsible for mailing the request to your former colleges and paying whatever fee is charged.

### Transfer Credit

The grades from all course work previously completed are considered in the admission process.

Course work done outside of the IU system with grades of C (2.0) or better are transferred for possible use toward an IUPUC degree. No courses with grades of C– or lower will transfer to IUPUC. None of the grades transferred from other colleges or universities count in the IUPUC grade point average. Some divisions, however, may consider such grades for admission purposes and other academic matters.

How accepted credit is applied to program requirements is determined by the division and/or department that offer the course(s). Courses that were completed 10 years ago or even more recently may not be accepted in some programs and must be approved by the individual division awarding the degree.

Course work taken at another institution for which there is an equivalent Indiana or Purdue University course (in terms of course description, level, and prerequisites) will generally be transferred as credit in the equivalent courses. Other course work will be transferred as undistributed and reviewed by the appropriate division to determine how it will be counted toward degree requirements. In addition, the university does not accept the transference of special credit by examination awarded by another college or university.

Courses taken at another institution on a quarter system rather than a semester system will be evaluated as carrying fewer credit hours (e.g., a 3 credit hour course taken on a quarter system will transfer as 2 credit hours).

## Visiting Students

If you are working on a degree from another institution and wish to take courses at IUPUC, apply as a visiting student. You are responsible for verifying that your home institution will accept the course credits. Your permission to enroll is for one term. You are not eligible for financial aid as a visiting student. If you wish to enroll in mathematics or English courses, you must either have completed a transferable (non-remedial) college course in that academic area or you must complete the IUPUC placement tests.

### Required Credentials and Qualifications

- Provide a photocopy of your most recent grade report or transcript.
- Have a cumulative grade point average of at least 2.0 on a 4.0 scale. (Purdue students are eligible regardless of grade point average provided they are not on drop status.)

### Students at Other IU Campuses

Students working on degrees at other IU campuses who wish to register for courses at IUPUC one semester

should complete the temporary intercampus transfer online through [admissions](#).

## International Students

The best guide to international admission standards and procedures is the “International Undergraduate Application for Admission.” This pamphlet is revised annually and contains an application form, financial support agreement form, estimated tuition and living expenses, English language proficiency requirements, detailed instructions, numbers to call, and relevant deadlines. The Office of International Affairs Web site ([www.international.iupui.edu](http://www.international.iupui.edu)) provides information on admissions for international undergraduates and graduates, links to the online applications, downloadable and printable application and financial support agreement forms, and links to Web sites of other offices.

### Admission Requirements

The admission requirements for students hoping to enter an associate, bachelor bachelor’s, or certificate program as either a beginning or transfer student are described below. Depending upon the admission requirements of their desired programs, students will be considered either for admission to University College or for dual admission to University College and the division of their intended program. Regardless of the admission category, beginning undergraduate students and most undergraduate transfer students will have the benefit of the University College Orientation program.

### Primary and Secondary Education

Beginning undergraduate applicants should have completed the primary and secondary education system of their own country. The U.S. primary and secondary education system consists of 12 years of study. IUPUC expects that applicants from other countries will have studied for a similar number of years in primary and secondary school to be eligible for university admission.

Pre-primary education is not included in this total number of years. However, applicants from countries with at least 11 standard years in the primary and secondary system may be considered if they have achieved a strong academic record and can submit the final, official school-leaving certificate.

Applicants applying from abroad are expected to have reached their 18th birthdays **no later** than the end of their first semester of study here.

Applicants from countries with more than 12 years of primary and secondary study may qualify for advanced standing.

Secondary school programs should have included study of a student’s native language, English or other foreign languages, mathematics, natural and/or physical science, humanities, and social sciences.

### General Certificate of Secondary Education

Applicants from British-style systems must have earned at least six GCSE (General Certificate of Secondary Education)—or their equivalents—0-level passes, including passes in English and mathematics. GCE (General Certificate of Education) Advanced A-level results may be considered to yield credit for advanced standing where the grade earned is D or higher.

Students with 0-level certificates who do not meet the minimum age requirements are encouraged to continue their studies to earn A-level certificates prior to applying to IUPUC.

## When to Apply

You may apply as early as one year in advance of your proposed enrollment.

If you file an application with all required credentials and the application fee by the priority date, you will receive full consideration for the semester requested. If admitted, you will be invited to an early orientation program during which you will register for classes.

<i>Priority date</i>	<i>Term</i>
July 1	Fall
December 1	Spring
April 1	Summer I
May 1	Summer II

## Academic Advising

New and transfer students with less than 12 transferable credit hours should schedule their initial academic advising appointment after placement testing, and preferably before orientation. To make an advising appointment, contact University College 812.348.7200.

- Preparing for Advising Sessions
- Elements of an Undergraduate Degree
- Scheduling Tools and Information
- First-Year Seminars or Learning Communities
- General Education Requirements/Introduction to Majors
- Undecided and Exploratory Options

## Preparing for Advising Sessions

Students are ultimately responsible for their own success. Students need to prepare themselves by understanding their degree requirements. University College and division advisors can provide tools and advising that aid students in making wise choices in the types and numbers of classes to take. Visit the [University College](#) web site or your division advisor for helpful hints on preparing for an advising appointment.

## Elements of an Undergraduate Degree

Basic to planning a college education, rather than just semester-by-semester picking of classes, is an understanding of what components make up a college degree. Most four-year college degrees are made up of about 40 courses. These courses generally are 3 credit hour courses, though some are 1, 2, 4, 5, and even 6 credit hour courses. Each hour of credit generally means four hours of academic work (i.e., one hour per week in class plus three hours of study time outside of class), though in some programs, especially in the sciences, there are additional credit hours for laboratory or recitation work.

Courses fall into three categories: general-education requirements, major or concentration requirements, and electives. The exact courses that may be used in each of these areas vary according to the program of study.

First-year students generally begin with a learning community, general-education courses, and introductory courses in their majors. Courses required for college degrees are often sequential (that is, they build on the content, concepts, and skills learned in lower-level courses). As a result, most schools number their courses 100, 200, 300, and 400 to indicate the order in which students should take the courses. First-year students should generally take courses in which the first number in the course number is either a 0 or 1; occasionally, first-year students might take a 200-level course.

Some courses require students to take prerequisites or lower-level courses before enrolling in the higher-level courses. Prerequisites are listed in the course descriptions in this bulletin. General-education requirements and the specific major requirements are listed in school sections of this bulletin. University College advisors also have checksheets of requirements for the different degree programs. Electives, generally five to ten courses depending on a student's program, are usually taken during junior or senior year.

## Scheduling Tools and Information

IUPUC provides a number of resources for students to conduct their work with the university. The Student Center in One.IU.edu allows students to review information about themselves, including the status of an admission application, the status of a financial aid application (and any award), their latest course schedule, book list, bursar account (fees owed or refund due), unofficial transcript, as well as information about a federal tax law that may result in an income tax credit tied to tuition paid in a calendar year. Students may also update address information through One.IU.edu. In addition, students and the public may review course offerings for current and upcoming semesters via the [IUPUC Website](#). The Student Center system in One.IU.edu is not intended to replace regular meetings with an academic advisor.

Students planning their schedules should also consult the degree requirements in this bulletin, the IUPUC Web site or the appropriate checklists provided by their advisors. The Registration Guide is available every March for summer and fall classes and in October for spring classes.

## First-Year Seminars or Learning Communities

National studies have shown that successful first-year students need five elements: an introduction to campus resources and support services, the creation of a support network (which is especially important on a commuter campus), ongoing personal interaction with faculty and staff, the development of skills and habits basic to academic achievement, and a realization of the high expectation that the campus has for each of its learners.

IUPUC requires all first year students to take a First-Year Seminar course. The seminar team approach of faculty members, librarians, advisors, and student mentors provides students with in-depth knowledge and contacts for key elements of the campus. Some seminars are specific to the program of study, while others have an added focus on career exploration.

## General-Education Requirements/ Introduction to Majors

Beginning students will also be advised to start on the general-education requirements for the program(s) in which they are interested. These classes may include communication skills, natural and mathematical sciences, social and behavioral sciences, or arts and humanities, depending on the division or program. Particularly if students are attending full time, they will be encouraged to enroll in the introductory course or courses in their program of study during the first or second semester of enrollment. These are usually 100-level courses.

## Undecided and Exploratory Options

Some students come to IUPUC uncertain of what they want to study, in part because they do not know all their options, and because they are unsure of their own strengths. They want to remain undecided until they explore all their options and feel more certain of their interests. All IUPUC students have access to career counseling.

There also are courses specifically focused on helping students make career choices. This is a healthy process. Exploring possible options early in a college career is common and far better than changing direction in the junior or senior year.

## Financial Aid & Scholarships

IUPUC's financial aid program is coordinated through the IUPUI Office of Student Financial Services. All policies, procedures and guidelines enforced at IUPUI are also applicable for IUPUC students and can be viewed via the following links. Questions regarding financial aid policies and procedures can be emailed to [financialaid@iupuc.edu](mailto:financialaid@iupuc.edu) or by calling (812)348-7231.

The FAFSA code for IUPUC is E01033.

- Types of Financial Aid
- Eligibility
- Aid for Graduate/Professional Students
- Satisfactory Academic Programs
- Scholarships

## Types of Financial Aid

- [Federal Pell Grant](#)
- [IUPUC 21st Century Scholars Grant](#)
- [Loans](#)
- [Work Study](#)
- [Scholarships](#)
- [Child of Disabled Veteran](#)

## How to Apply for Financial Aid

### What is the FAFSA?

The Free Application for Federal Student Aid (FAFSA) is used to apply for grants, loans, and work-study. In addition, it is used by SSACI for consideration of their grants and awards. The student may file the FAFSA electronically at [www.fafsa.ed.gov](http://www.fafsa.ed.gov), or he or she may submit a paper copy to the processor. To award financial aid to students, IUPUC must receive the student's FAFSA data. IUPUC's school code is **E01033**. IUPUC must be listed as the first school code on the state website in order

for state aid to be released to the university. You can check the state school code at [www.in.gov/ssaci](http://www.in.gov/ssaci).

Once the FAFSA is processed, the information is electronically sent to the school(s) listed on the FAFSA. In addition to the information being sent to the school(s), a paper copy of this information is sent to the student. The form the student will receive is called a Student Aid Report (SAR). The student should receive his or her SAR within 4 weeks from the time the FAFSA was submitted. When the student receives the SAR he or she should review the information to make sure it is correct. If the student needs to make corrections he or she should submit the changes to the federal processor.

Completing the FAFSA and applying for student financial aid is FREE. Students should be wary of mailings or web sites that offer to submit their application or to find money for school if the student pays them a fee. Generally, any information or service paid for can be obtained for free from IUPUC or from the U.S. Department of Education.

#### When should a student submit the FAFSA?

The FAFSA must be submitted EACH year the student is applying for financial aid. The form is available January 1st of each year (as of 2016). For priority consideration, the student must file the form by March 10th of each year. If a student files after the priority deadline, he or she will still be considered for federal aid, which may include grants, loans, and work-study employment.

### Satisfactory Academic Progress

A student's academic progress is carefully monitored throughout each semester. Please remember all or a portion of any financial aid received may have to be paid back if a student adjusts his/her enrollment status during a semester. Please visit Student Services for financial aid counseling or call 812-348-7231. Students may also email // // [financialaid@iupuc.edu](mailto:financialaid@iupuc.edu) or visit the Office of Financial Aid [online](#) for assistance.

### Scholarship Information

#### Types of Scholarships

Details about these scholarship categories are described on our public IUPUC website.

- [Admission Based](#)
- [Donor Funded](#)
- [Community Foundation](#)
- [Other Scholarships](#)

### Aid for Graduate/Professional Students

#### Graduate Students

The types of financial aid available to graduate students include loans and federal work study from Federal Title IV programs. Please visit our office at CC156 for aid counseling or call 812-348-7231. Students may also email [financialaid@iupuc.edu](mailto:financialaid@iupuc.edu)

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#### Eligibility

The federal government determines a student's financial aid eligibility by evaluating the information submitted on

the Free Application for Federal Student Aid (FAFSA). Financial aid is available in the form of grants, loans, and work-study employment.

The FAFSA priority deadline to qualify for State financial aid is March 10. The federal school code for IUPUC is E01033. It is important for students to list the IUPUC school code on their FAFSA to ensure processing for financial aid at IUPUC. It is recommended that all students file their FAFSA online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

**State grants**, such as Frank O'Bannon or the 21<sup>st</sup> Century Scholar, are controlled by the State Student Assistance Commission of Indiana (SSACI). SSACI requires eligible students to be enrolled in at least 12 credit hours each fall and spring semester and to file their FAFSA each year by March 10 to receive these funds. Other enrollment completion requirements might be needed for renewal of state awards.

The **federal Pell grant** does not require a minimum credit hour enrollment. Students must enroll in a degree program and be in good academic standing.

To qualify for student **loans or work-study** each fall and spring semester, undergraduate students must enroll in a minimum of six credit hours (half time), and graduate students must enroll in four credit hours.

for assistance.

### Graduation Requirements

#### Applying for Graduation

Candidates for graduation initiate the certification process by filing an Intent to Graduate form with the advisor of their division at least one year prior to their expected graduation date. Purdue degree candidates must register for CAND 991 as noted in the Registration Guide. Details concerning the application deadlines of specific divisions and any additional requirements related to graduation are available from the advisor or the division sections of this bulletin.

#### Completion of Degree Requirements

When students contact the advisor about graduation, they should double-check that they in fact will have completed graduation requirements. The "My Degree Progress" option in the self-service area in OneStart shows which courses students still need to take and whether all transfer work has been entered. Some divisions perform degree audits either when students file for graduation or at the beginning of their senior year.

Students should go over audits with their advisors to make sure they are accurate, and contact the division advisor with questions. Common mistakes that result in a student's failure to graduate are unacceptable grades and not registering for necessary courses, dropping courses during the last semester, or otherwise failing to complete required courses. Students may graduate with incompletes on their record, provided they are not for required courses. Residency requirements also affect graduation eligibility.

#### Required Grade Point Average

In addition to completing all the required course work, students must have a specific overall grade point average and a specific GPA in their program to graduate. Most divisions also require grades of C or higher in program

courses. Students should familiarize themselves with the policies of their program.

## Orientation

University College, in conjunction with the divisions, requires all beginning and transfer students with less than 12 transferable credits to attend an orientation program. At orientation, students receive an overview of campus resources, receive information about the divisions/program in which they are interested, receive success tips from current IUPUC students, engage with members of the IUPUC family, explore opportunities for student involvement, and have their photo taken for their student I.D. card. Students must obtain their IU account before attending orientation. Technology will be covered during one portion of the orientation program. For more information please see the [IUPUC Orientation Website](#).

Students are required to pay a New Student Enrollment Fee that is assessed to all students who are beginning their first semester in a degree-seeking program. The fee is not contingent on participation in the orientation program.

## Placement Testing

A student's academic career begins with placement testing, followed by meeting with an academic advisor and attending orientation. The placement test results indicate the student's level of preparedness and the proper or recommended course placement in writing and mathematics.

### Mathematics Placement Testing

All beginning students must complete the a mathematics placement test. Transfer students who have received credit for IUPUC math courses, including MATH 001, 11000, 11100, M118, M119 or any calculus course only need to take the mathematics placement test if additional mathematics courses are required for the program of study. Transfer students who have completed all required math courses for the program of study are not required to take the placement test. The mathematics placement scores are valid for two years from the test date.

### English Placement Essay

The English placement test requires you to write a short essay that takes and supports a specific position on a social issue. The essay determines which of two writing courses is the best starting point for your college career.

If you plan to enroll in ENG-W 131 with Supplemental Instruction (SI), you are not required to complete a placement essay but you may choose to use it to help your advisor determine whether ENG-W 131 with SI is the best course for you.

ENG-W 131 is a required class that must be taken to graduate. You are eligible to register for ENG-W 131 without taking the placement test if you meet at least one of these criteria.

- You have an SAT critical reading score of 500 or higher.
- You have an ACT English score of 22.
- You received a grade of D- or better in ENG-W 130.

Your placement test results indicate placement into either Eng W131 or Eng W131 with SI.

If you are transferring to IUPUC from another campus and you already have credit for ENG-W 130 or ENG-W131, you do not need to complete English placement testing.

For more information on placement testing, see the [Placement Testing](#) Web site. Placement test results for math are available immediately following testing. English placement test results will be discussed during academic advising.

Additional resources

- Testing for Students Whose Native Language is Not English/English as a Second Language (ESL) Placement Testing
- Accommodations for Placement Testing

## Testing for Students Whose Native Language is Not English/English for Academic Purposes (EAP) Placement Testing

All new students—graduate and undergraduate—whose native language is not English are required to take the ESL placement test prior to registration. This test is administered by the IUPUI Testing Center on behalf of the English as a Second Language Program. All international students from non-English speaking countries as well as U.S. permanent residents and others referred by the Office of Admissions take the ESL placement test in lieu of the English Placement Test that native speakers of English are required to take.

## Accomodations for Placement Testing

Students who need accommodation because of disabilities or need special equipment, extended time, or tests taken in separate rooms—whether for placement testing, orientation, or for actual classes—must contact the Adaptive Educational Services (AES) Coordinator before or at the same time they schedule placement tests. Since registering with AES and providing them with documentation takes time, as does the arrangement of services, students must contact AES (812)314-8539 as soon as possible before classes start.

## External and National Testing

For more information regarding External and National Testing, please visit IUPUI's online [site](#).

## Registration

- Registration
- Waitlisting
- Enrollment Permissions and Holds
- Dropping or Adding Classes (Schedule Adjustments)
- Partner Locations
- Fees

## Waitlisting

Occasionally, students will be turned away from a class section because it is filled to capacity. Seats may open up, however, if registered students drop the class during

the registration period. Through an automated waitlisting system, the first person to make a waitlist request for a class is placed at the top of the waitlist. When a seat opens up, that person is registered automatically for the course. For more information, check the Registration Guide or visit the Web site [registrar.iupuc.edu](http://registrar.iupuc.edu).

## Enrollment Permissions and Holds

An advisor's approval for a student to register does not guarantee enrollment in a particular class; it only authorizes that the student is eligible for enrollment that term. Divisions may restrict enrollment in particular courses, so students should review the course descriptions in this bulletin or view course listings online through OneStart to see if they fit the requirements.

For instance, some courses, such as upper-division courses in business, are open only to students officially enrolled in certain divisions. Other courses may be restricted to students with sophomore, junior, senior, or graduate student status. Finally, some courses require a student to have completed one or more courses prior to enrollment (known as "prerequisites"). Otherwise ineligible students who believe their personal preparation overrides the restrictions may seek the division's or instructor's permission to enter the class.

On occasion, students have a hold placed on their enrollment. When this occurs, they cannot register for courses because they have failed to meet some requirement of the university or division and cannot proceed until the problem is resolved. Problems that result in a hold include having a grade point average below the required level or failure to pay tuition or other fees.

Students with unpaid library fines, outstanding parking tickets, or with a disciplinary problem also may be placed on hold. Students can review their status on OneStart, and if they find they have such a hold, they should contact the office(s) listed to resolve the problem. For more information about holds, students may contact the department or division involved or the Office of the Registrar at 812.347.7287.

## Dropping and Adding Classes

Students can make changes in their schedule, commonly known as add and drop. Students may add courses from the time of their initial registration up through the end of the first week of classes via Onestart. After the first week of classes, students may add courses only with a paper Schedule Adjustment form and the instructor signature.

Students may drop courses from the time of their initial registration through the last day of the automatic W period using Onestart. After the automatic W period, the student may drop a course with a Schedule Adjustment form with instructor signature and instructor designation of W or F; this option ends on the last day for withdrawal for the semester. After the last day for withdrawal, students may only make adjustments to their schedule using a schedule adjustment form and obtaining signatures from the heads of the division offering the course; this option may only occur in rare situations with documentation from clergy, legal representation, or the equivalent. Students receiving financial aid should be aware that dropping a course may change the amount of aid for which a student is eligible

and may require that the student repay some of the money already received.

Students must drop classes officially; to stop attending a class or even to never attend the class does not cause the student to be dropped from the class. Failing to attend class does not mean a student has dropped a class but rather will result in an F in the course. Failing to pay for the course once registered and not attending will result in both an F and a bill for the course. After the middle of the semester, students need the instructor's signature in order to drop a class.

Dropping classes is done online through OneStart or by using the Schedule Adjustment forms, which are available at the Office of the Registrar. If using a form it must be filled out, signed, and returned to the Office of the Registrar, Room 156M.

While withdrawals do not change a student's GPA, withdrawals may trigger the federal government's definition of "not making academic progress" and may result in the loss of eligibility for certain types of aid. Contact the Office of Financial Aid and Scholarships for more information about Satisfactory Academic Progress at <http://www.iupuc.edu/financialaid/contacts/>.

Check the [Academic Calendar page](#), found on the Office of the Registrar web site, each semester for exact drop/withdraw and refund dates. You may also contact the Office of the Registrar at 812.348.7287 or [online](#).

## Registration Process

Registration for first-time students takes place in conjunction with orientation. In subsequent semesters, students may register themselves using Onestart. Information about registration is available in the Registration Guide, online at the [Office of the Registrar](#). The Schedule of Classes is also available online at the [Office of the Registrar](#). Students may contact their academic advisor for assistance with registration or questions regarding degree requirements.

It is vital that students keep both local and home addresses and phone numbers up to date with the university. In some cases, local and home addresses are identical, though some use their parents address as their home address. Students can change their addresses online through [onestart.iu.edu](http://onestart.iu.edu). Addresses may also be changed by completing an address change form, available in the Office of the Registrar.

All students are issued university e-mail addresses. It is the responsibility of the student to learn how to access their university e-mail and to check it frequently. Many university offices correspond with students and share announcements only through university e-mail accounts.

## IUPUC Courses- Partner Locations

IUPUC offers courses in surrounding communities through the Jackson County Learning Center and the [Greensburg Community Learning Center](#). Courses are provided to assist students in furthering their education while staying in their community. We offer courses that apply toward degree programs and certificates. For more information, contact the Office of the Registrar at (812)348-7287.

## Fees

IUPUC tuition is set annually by the Trustees of Indiana University. Current fee information appears in the Registration Guide, available [online](#), and the rules that determine whether students are residents or nonresidents for fee-paying purposes are available [online](#) as well. Undergraduate programs and most graduate/professional programs charge by the credit hour.

In addition to tuition, there are some special course fees for equipment or supplies; all undergraduates are assessed technology and student activities fees. New students are charged a New Student Enrollment Fee. The semester parking fee is optional, and books and supplies are additional. Various payment options are described in the Registration Guide. See [bursar.iupuc.edu](http://bursar.iupuc.edu) for more information, including current fees.

Students whose financial aid or loans have not yet arrived may qualify for automatic aid deferments through the Financial Aid Office. As long as students have anticipated aid listed on their OneStart account, they only need to pay tuition and fees in excess of the amount of anticipated aid listed. If the anticipated aid has not been credited by the second due date of the semester, it is the student's responsibility to resolve his or her issue with the financial aid office or personally pay the balance. Students are not removed from classes for failing to pay their bills.

If a bill remains unpaid and the student does not withdraw during the refund period, he or she is still responsible for the unpaid tuition and fees regardless of attendance or grade received. If the student withdraws, the bills will be adjusted accordingly, only if the withdraw occurs during a refund period. It is, therefore, critical that students check with the Bursar or monitor their accounts via [OneStart](#) to determine whether they received financial aid.

## Student Learning Outcomes

Student Learning Outcomes (SLO's) for undergraduate programs that students can complete at IUPUC are found in the links below:

- Business\*
- Case Management
- Communication Studies
- Education
- English (with concentration in Creative Writing or Literature)
- General Studies
- Mechanical Engineering
- Nursing
- Psychology
- Sociology
- Substance Abuse Counseling

Students who wish to complete degrees not listed here may transfer their IUPUC credits to IUPUI. Student Learning Outcomes for IUPUI programs can be found on the [IUPUI Bulletin](#) website.

\*Includes concentrations in Accounting, Finance, Health Services Administration, Management, and Marketing.

## Bachelor of Science in Education

The following Student Learning Outcomes apply to the undergraduate Elementary Education degree and teaching

certification programs offered by the IUPUC Division of Education.

### **Principle 1: Conceptual Understanding of Core Knowledge**

Definition: The ability of teachers to communicate and solve problems while working with the central concepts, tools of inquiry, and structures of different disciplines. For prospective secondary teachers this means developing rich expertise within their chosen discipline. This principle is demonstrated by the ability to:

- Set learning goals that reflect command of the subject matter.
- Design and implement instruction that develops students' conceptual understanding of core knowledge.
- Interact with learners, providing meaningful and strategic information.
- Improve learners' communication and quantitative skills through meaningful learning engagements.
- Model effective communication and problem solving.
- Use a variety of media and technology.
- Distinguish high quality educational materials.
- Write and speak with clarity.

### **Principle 2: Reflective Practice**

Definition: The ability of teachers to step outside of the experiences that make up teaching and to analyze and critique from multiple perspectives the impact of these experiences and contexts. This principle is demonstrated by the ability to:

- Explain the principles that guide teaching.
- Demonstrate teaching as an inquiry process, collecting and analyzing data about students' learning and generating plans designed to support student understanding.
- Entertain multiple perspectives.
- Self-assess from multiple perspectives.
- Collect information through observation of classroom interaction.
- Assess learners' development and knowledge.
- Use assessment processes appropriate to learning outcomes.
- Invite learners to employ multiple approaches, solutions, and diverse pathways to learning.

### **Principle 3: Teaching for Understanding**

Definition: The ability of teachers to draw on their conceptual understanding to plan, implement, and assess effective learning experiences and to develop supportive social and physical contexts for learning. This principle is demonstrated by the ability to:

- Set clear and developmentally appropriate goals for learning experiences.
- Establish suitable classroom routines.
- Provide learners with meaningful choices.
- Create a collaborative, supportive social environment.
- Engage learners in generating knowledge and testing hypotheses.
- Help learners articulate their ideas and thinking processes.

- Use multiple strategies that engage students in active, meaningful learning.
- Encourage learners to see, question, and interpret ideas from diverse perspectives.
- Support learners in assuming responsibility for themselves and for their own learning.
- Create an inviting, interactive learning environment.
- Ask questions that promote meaningful learning.
- Build on children's prior knowledge.

#### **Principle 4: Passion for Learning**

Definition: The ability of teachers to continually develop their own complex content and pedagogical knowledge and to support the development of students' habits of continual, purposeful learning. This principle is demonstrated by the ability to:

- Synthesize and teach complex concepts and networks of knowledge.
- Learn about learners and teaching through reflective practice.
- Recognize and support learners' intellectual, social, and personal growth.
- Support all learners with special needs including learners new to English.
- Engage learners in multiple ways of knowing.
- Convey reasonable, but high and positive expectations for learner achievement.
- Integrate the disciplines to create meaningful curriculum.
- Give learners opportunities to solve community problems and to make authentic and meaningful choices.
- Provide all learners with equitable access to meaningful learning opportunities.
- Seek help from other professionals when needed.
- Engage in personal inquiry to construct content and pedagogical knowledge and skills.

#### **Principle 5: Understanding School in Context of Society and Culture**

Definition: The ability of teachers to value and to teach about diversity, inclusivity, and equity; to recognize the impact of social, cultural, economic, linguistic, geographic and political systems on daily school life; and to capitalize on the potential of school to minimize inequities. This principle is demonstrated by the ability to:

- Act as a change agent.
- Demonstrate willingness and growth toward multicultural competence and culturally responsive teaching.
- Recognize cultural differences and strive to address the discontinuities that can become obstacles to equitable teaching and learning.
- Mediate when learners need help to resolve problems or change attitudes.
- Initiate and engage in partnerships with families, teachers, administrators, and other community members involved in the lives of students, and respect families as partners in teaching and learning.
- Embed knowledge of home, school, and community into teaching.

- Recognize and challenge deficit perspectives about, and utilize strength-based approaches to engage with students, families, and communities.

#### **Principle 6: Professionalism**

Definition: The ability of teachers to be active contributors to professional communities that collaborate to improve teaching and student achievement by developing shared ethics, standards, and research-based practices. This principle is demonstrated by the ability to:

- Demonstrate the ethical principles guiding professional conduct.
- Demonstrate and document standards-based practice that aligns with Common Core, Indiana, and professional standards.
- Stay current in terms of research on pedagogy, content, and assessment.
- Participate in professional organizations and resource networks beyond the school.
- Collaborate with colleagues about issues that are complex and difficult.
- Give presentations for other professionals.
- Initiate activities such as teacher research, study groups, and coaching to improve the teaching and learning of a school community.
- Promote positive attitudes.
- Facilitate decision making.
- Operate on democratic principles.

### **Bachelor of Science in Business**

The Division of Business has adopted four program learning outcomes for the Bachelor of Science in Business Degree Program at IUPUC. Upon completion of undergraduate business studies at IUPUC students, achievement of learning outcomes is demonstrated by proficiency in:

#### **1. Communication**

- Creates effective visuals as needed.
- Demonstrates appropriate communication mechanics.
- Communicates clearly, expressively and connects to audience.
- Organizes and supports content.
- Works effectively as a member of a team.

#### **2. Critical Thinking**

- Clearly frames key issues or problems.
- Interpret relevant information and data.
- Develops feasible solutions.
- Articulates conclusions or recommendations.

#### **3. Integration**

- Demonstrates proficiency from a business management perspective across all key business functional areas.
- Integrates knowledge from multiple disciplines to frame business situations.
- Establishes a high level, business management perspective in problem solving.
- Demonstrates awareness of the social and cultural context of the business enterprise.

- Demonstrates proficiency in Microsoft Excel based skills.

#### 4. Professional Development

- Demonstrates effective application of knowledge and skills to internship, research project, or international experience.
- Contributes meaningfully to community or campus organizations.
- Demonstrates proficiency in a professional networking environment.

**NOTE:** Includes concentrations in Accounting, Finance, Health Services Administration, Management, and Marketing.

## Psychology

### **PUL #1: Core Communication and Quantitative Skills**

The ability of students to write, read, speak, and listen, perform quantitative analysis, and use information resources and technology - the foundation skills necessary for all IUPUC students to succeed.

#### *#1A: Language Skills*

##### Psychology SLOs Equivalent to this Learning Outcome

- Demonstrate effective, situation appropriate writing and speaking skills.
- Comprehend, interpret, and analyze college-level sources of information and vocabulary.
- Understand and correctly use discipline-specific terminology in psychology.

#### *#1B: Quantitative Skills*

##### Psychology SLOs Equivalent to this Learning Outcome

- Read, comprehend, and critique research methods in original research articles.
- Use scientific research methods including design, data analysis, and interpretation to solve problems related to issues in psychology.
- Identify and propose solutions for problems using quantitative tools and reasoning.
- Interpret and perform statistical analyses for basic research designs and understand distinctions between and appropriate use of correlational and experimental findings.

#### *#1C: Information Resources Skills*

##### Psychology SLOs Equivalent to this Learning Outcome

- Perform literature searches effectively using a variety of sources and techniques.
- Utilize computers and other technologies for many purposes, including professional communication of information, and data management.

### **PUL #2: Critical Thinking**

The ability of students to analyze carefully and logically information and ideas from multiple perspectives.

##### Psychology SLOs Equivalent to this Learning Outcome

- Understand, remember, apply, analyze, evaluate, create, and synthesize knowledge, procedures, processes, or products.

- Use these skills to solve problems, produce reasoned choices, make informed decisions, and generate new questions.
- Design, carry out, and defend research projects.

### **PUL #3: Integration and Application of Knowledge**

The ability of students to use information and concepts from studies in multiple disciplines in their intellectual, professional, and community lives.

##### Psychology SLOs Equivalent to this Learning Outcome

- Develop self-awareness by identifying personal strengths, weaknesses, values, and goals.
- Develop clear and realistic goals and expectations for a career in psychology or related field.
- Apply psychological knowledge to enhance their personal lives and the lives of others.
- Further the goals of society and pursue them at a local level.
- Understand and abide by the ethics of psychology.

### **PUL #4: Intellectual Depth, Breadth, and Adaptiveness**

The ability of students to examine and organize disciplinary ways of knowing and to apply them to specific issues and problems.

##### Psychology SLOs Equivalent to this Learning Outcome

- Remember and understand the major concepts, theoretical perspectives, methodologies, and empirical findings in psychology.
- Be able to distinguish between approaches to knowledge in psychology and other fields.
- Be able to modify approaches based on context or situational demands.

### **PUL #5: Understanding Society and Culture**

The ability of students to recognize their own cultural traditions and to understand and appreciate the diversity of the human experience, both within the United States and internationally.

##### Psychology SLOs Equivalent to this Learning Outcome

- Recognize, understand, and respect the similarities and differences that exist between individuals, societies, and cultures on values, behaviors, and thought processes.
- Understand the influence of culture and society on individuals' cognition and behavior.
- Analyze and understand the interconnectedness of local and global communities.
- Operate with civility, especially toward those who differ from oneself.
- Work effectively, respectfully, and collaboratively with others with diverse backgrounds and perspectives.

### **PUL #6: Values and Ethics**

The ability of students to make judgments with respect to individual conduct, citizenship, and aesthetics.

##### Psychology SLOs Equivalent to this Learning Outcome

- Make informed and principled choices in their personal and public lives and be aware of the consequences of these choices.
- Recognize the importance of aesthetics in their personal lives and to society.

- Understand ethical principles within diverse cultural, social, environmental, and personal settings.
- Understand and abide by ethical standards of the professional organization of the chosen profession (e.g., APA for clinicians and psychologists, Belmont Report for researchers).

## Certificate in Case Management

Upon completion of this certificate program, students will:

1. Acquire and apply basic knowledge to case management contexts.
2. Identify different groups and their culturally nuanced needs.
3. Recognize different approaches that are appropriate for specific diverse populations.
4. Demonstrate understanding of approaches to working with diverse populations in community settings.
5. Define community resources locally available.
6. Match client needs with appropriate community resources.
7. Integrate community resources into the management and improvement plan.
8. Empower clients to find, understand, and obtain resources in their community.
9. Develop, implement, and evaluate a behavior management and improvement plan for the client and family.
10. Deliver a cohesive family development plan.
11. Maintain professionally ethical behaviors.
12. Exhibit collaborative behaviors with co-workers and clients.
13. Demonstrate professionalism in personal ethics.

## Bachelor of General Studies

Upon completion of the General Studies program, students will acquire the following competencies:

1. **Core Competencies**
  1. **Communication - Written/Oral:** Students effectively communicate in written or spoken language to diverse audiences. Students comprehend, evaluate and respectfully respond to the ideas of others.
  2. **Diversity:** Students appreciate local and global diversity and are respectful and empathetic during personal interactions. Students effectively collaborate and resolve conflicts.
  3. **Mathematical/Quantitative Reasoning:** Students demonstrate the ability to use symbolic, graphical, numerical, and written representations of mathematical ideas. Students compute, organize data and effectively problem-solve using quantitative tools.
  4. **Information Technology:** Students locate, critically evaluate, synthesize, and communicate information in various traditional and new media formats. Students understand

the social, legal, and ethical issues related to information and its use.

## 2. Degree Requirements

1. **Arts and Humanities:** Students interpret and critique the historical, cultural and literary dimensions of human experience. Students develop an appreciation of the aesthetic value of these subjects.
2. **Science and Math:** Students investigate, evaluate and develop skills to comprehend and apply basic principles of scientific methodology and differentiate among facts and theories.
3. **Social and Behavioral:** Students compare, contrast and construct an understanding of the role social, economic, cultural and political institutions play in shaping human thought and behavior. Students are able to function as engaged members of society, who are willing and able to assume leadership roles.

## 3. Integration and Application

1. **Lifelong Learning:** Students assess their own knowledge, skills and abilities and develop plans of study for baccalaureate as well as ongoing personal and professional pursuits of knowledge.
2. **Synthesis of Learning:** Students demonstrate integration of baccalaureate learning in an academic focus area.

## Bachelor of Science in Mechanical Engineering

Upon completion of this degree program, students will be able to:

1. Demonstrate and apply knowledge of mathematics, science, and engineering with chemistry and calculus-based physics in depth; mathematics through multivariate calculus, differential equations, and linear algebra; probability and statistics; and mechanical engineering sciences: solid mechanics, fluid-thermal sciences, materials science, systems dynamics.
2. Conduct experiments methodically, analyze data, and interpret results.
3. Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability, with applications to mechanical systems and thermal systems.
4. Function in teams to carry out multidisciplinary projects.
5. Identify, formulate, and solve engineering problems.
6. Understand professional and ethical responsibilities.
7. Communicate effectively in writing and orally.
8. Understand the impact of engineering solutions in a global, economic, environmental, and societal context through broad education.
9. Recognize the need to engage in lifelong learning.
10. Demonstrate knowledge of contemporary issues.
11. Use the techniques, skills, and modern tools of engineering effectively and correctly in engineering

practice with mechanical engineering analysis tools (e.g., ProMechanica); engineering design and manufacturing tools (e.g., ProEngineer); internet and library information resources; and mathematical computing and analysis tools (e.g., Matlab, Excel, LabView, and C).

## Bachelor of Science in Nursing

As a graduate of the BSN program, you will be:

- A critical thinker who demonstrates intellectual engagement and uses evidence as a basis for clinical reasoning and decision making
- A culturally sensitive individual who provides holistic, individual, family, community, and population-centered nursing care
- A knowledgeable care coordinator who facilitates access to resources across the continuum of healthcare environments in order to meet the evolving healthcare needs of individuals, families, communities, and populations
- An individual who understands and considers the impact of healthcare policy, finance, and regulatory environments on care delivery
- An individual who embodies the professional identity of the nurse and who translates the inherent values of the nursing profession into the ethical and legal practice of nursing
- An effective communicator who collaborates with inter-professional team members, patients, and their support systems for improved health outcomes
- A competent care provider who is prepared to practice to the full capacity of the professional nurse role in diverse health care environments
- An accountable leader and manager who applies principles of systems and organizational processes and balances resources to promote quality care and patient safety
- An individual who embraces and employs innovations in information management and technology in the delivery of quality patient care

## Bachelor of Arts in Communication Studies

Students who complete the Communication Studies degree program will be able to:

1. Demonstrate the ability to develop messages in ways appropriate for specific audiences
2. Express ideas and facts effectively to others in a variety of formats, including written and oral formats
3. Employ appropriate research techniques to analyze, interpret, and present various data effectively
4. Assess research for accuracy, adequacy, correctness, accessibility, and usability
5. Demonstrate the ability to critically think through analysis and evaluation of knowledge and processes in order to make informed decisions
6. Demonstrate an understanding of a Communication specialization (i.e., Communication Studies or Rhetoric and Culture)
7. Recognize and understand basic communication theories
8. Select and apply theoretical concepts and principles to the interpretation of communication phenomena

9. Recognize and overcome biases, prejudices, and limited viewpoints in order to communicate effectively
10. Demonstrate an appreciation of the global diversity of communication and its influence on the world

## Bachelor of Arts in English

The English degree program will train and equip graduates to demonstrate the following outcomes:

1. Demonstrate the importance and power of reading/ thinking critically and writing with clarity and purpose.
2. Define basic concepts, terms and theories in at least two areas of English studies (creative, literature, writing and literacy).
3. Read analyze, synthesize, evaluate, and interpret language and texts critically.
4. Construct and write a reasoned argument integrating public/expert and personal voices.
5. Recognize the importance of diverse perspectives and specializations in English studies.
6. Analyze and evaluate the impact of culture, diversity, and time on texts and ideas as well as language use and structure.
7. Describe and discuss the interdisciplinary context of English as a field of study and its connection to other disciplines.
8. Explain how language influences intellectual and emotional responses.

*This degree program also includes two concentrations: Creative Writing, and Literature.*

## Bachelor of Arts in Sociology

The Sociology degree program will train and equip graduates to:

1. Know how to collect data on social phenomena.
2. Know the background in a specific concentration area of sociology (e.g., medical sociology, gender, sex, and family studies).
3. Understand how to analyze data on social phenomena.
4. Understand increasing diversity of disciplinary specialties and backgrounds of those involved in program.
5. Be able to apply sociological knowledge and methods in community projects.
6. Be able to organize and conduct independent projects.
7. Be able to present and defend their analyses of social phenomena.

## Certificate in Substance Abuse Counseling and Prevention

Upon completion of this certificate program, students will:

1. Utilize professional skills when working with people and families with substance abuse issues.
2. Match and utilize community resources to meet client needs.
3. Exhibit cultural competency skills working with diverse populations.

4. Provide direct services in substance abuse counseling and prevention.
5. Demonstrate collaborative problem-solving and networking skills with co-workers and clients.
6. Mentor and teach life skills to clients.
7. Demonstrate competence in substance abuse prevention and counseling during a field placement experience.

## General Education Core 30

The IUPUC plan for general education defines common competencies for all IUPUC undergraduate students, regardless of their degree program. The IUPUC general education plan meets Indiana's statewide transferable general education core, a system designed to maximize flexibility for students transferring from one university campus or academic program to another. Your academic advisor will help you select courses that meet the statewide requirements. These courses should be taken as early as possible, preferably in the first year.

Learn more about IUPUC's plan for [general education!](#)

## Graduate/Professional Program Overview

Students who already hold bachelor's degrees frequently want to take courses without being admitted to one of the university's degree programs. These are students who are not currently enrolled in a degree program but are working toward admission or taking classes for personal or professional enrichment with no plans to work toward a degree.

Such students must apply to the Graduate Non-Degree (GND) program. As GND students, they can take both undergraduate and graduate courses. However, many graduate courses will require GND students to obtain preregistration permission from either the instructor or the department. GND students may not accumulate more than 18 credit hours in a single subject area.

Students who are initially admitted as nondegree students, but who later wish to obtain a graduate degree, must make formal application for admission to a departmental degree program. Once admitted, the department may recommend to the dean of the Indiana University Graduate School that credit earned as a nondegree student be applied to degree requirements. Students should be aware that certain divisions specifically prohibit course work taken under nondegree status from counting toward a degree after a student has been admitted to a degree program.

The types of financial aid available to graduate students include loans and federal work study from Federal Title IV programs and scholarships from IUPUI. A small number of graduate students qualify for fee credits from SSACI.

## Master of Business Administration Overview

- [Graduate/Professional Program Overview](#)
- [Master of Business Administration](#)

### Application Deadlines

- The IU MBA Program at IUPUC starts new student cohorts every fall and spring semester. Application deadlines for fall admission are May 1 for international students and June 1 for all other MBA applicants. Application deadlines for spring admission are October 1 for international students and November 1 for all other MBA applicants. Please visit the program [web site](#) for current details.

The MBA program is....

- **Six thematic modules** that provide an integrated experience to help you learn business management in ways similar to how real business is conducted and let you address complex management problems.
- **Analytical skills** you need to understand business problems and the **personal and professional development skills** to address those problems in productive, ethical ways.
- **Full-time, available faculty** who combine their industry experience with ongoing academic and applied research.
- **International perspectives** in the curriculum as well as in the classroom, with approximately a dozen countries represented in current cohorts.

### Overview

#### Study part-time, finish in 24 months.

By targeting general management and decision-making skills, the IU MBA Program at IUPUC becomes a powerful credential that continues serving you well as your professional life develops and grows.

It is an applied educational experience, utilizing problem- and project-based learning to exercise concepts and strategies. Faculty mentor you through the program by fusing their own business experiences with ongoing academic and applied research. And they are easily available to you: At a time when so much educational contact is relegated to nameless or faceless online encounters, faculty in the IU MBA Program at IUPUC interact with you face-to-face. In real life 3D, inside and outside of the classroom.

Best of all, the IU MBA Program at IUPUC is convenient and affordable. Begin your studies in August or January, attend classes part-time, two nights a week, and complete your degree in 24 months.

#### Prep for Success

Unlike other MBA programs, IUPUC offers the Prep for Success course during the initial three weeks of your first semester that eliminates

the need for traditional prerequisites. A combination of financial and case-study analysis, MBA Prep for Success helps ensure you and your peers are ready for graduate business study.

## MBA Admissions

Students who have completed a four-year undergraduate degree in any discipline from a regionally accredited (or equivalent international) institution are welcome in the MBA Program at IUPUC.

Your application to the program will consist of several items:

- A completed application form, available from the website.
- Scores from the [Graduate Management Admissions Test \(GMAT\)](#) or [Graduate Record Examination \(GRE\)](#) taken within the past five years. Have your scores sent to IUPUC, school code 065-BW-28.
- Official transcripts from any institution of higher education at which you have studied, even if you did not earn a degree.
- Current resume.
- A 500-word essay based on one of three topics we provide.
- A non-refundable application fee.

NOTE: Some international students may have additional requirements; visit the [International Students website](#) for details.

### Application Documents

Visit the [IU MBA Program at IUPUC website](#) for current application instructions and deadlines.

### Application Deadlines

The [IU MBA Program at IUPUC](#) starts new student cohorts every fall and spring semester. Application deadlines for fall admission are May 1 for international students and June 1 for all other MBA applicants. Application deadlines for spring admission are October 1 for international students and November 1 for all other MBA applicants. Please visit the [program website](#) for current details.

### What We Look For

Our admissions decisions rest on three pillars of evaluation:

1. **Academic Performance:** Your GMAT/GRE scores, GPA, and quality of undergraduate institution and program are combined into a metric to rate academic potential. There is no minimum GMAT/GRE or GPA; the combination is what matters.
2. **The Whole Person:** Your resume and essay are significant considerations for admission. These items help us evaluate the experiences you might bring to the cohort, and the communication and critical thinking skills necessary to both succeed in graduate business studies and manage well in an organization. Professional work experience is not required, though many of our students have at least a few years of such experience.

3. **Dynamics and Diversity of the Cohort:** Finally, because we target small cohorts, it is important to us to consciously consider each student as a contributor to cohort dynamics and diversity. For example, the IU MBA Program at IUPUC has always had a strong international element. And while most of our students have several years of professional experiences, often in technical fields such as engineering, we also value the fresh perspectives of quality students with little professional experience but who often bring an entrepreneurial flair to the cohort.

### Contact Information

#### MBA Program

#### Arvin Center for Graduate Business and Executive Education

#### Indiana University-Purdue University Columbus (IUPUC)

4601 Central Avenue  
Columbus, IN 47203  
812.348.7288 or 812.348.7273  
812.348.7276 (Fax)

[iumbacol@iupuc.edu](mailto:iumbacol@iupuc.edu)

[www.iupuc.edu/mba](http://www.iupuc.edu/mba)

## MBA Learning Outcomes

### MBA Program Philosophy

The purpose of the IU MBA Program at IUPUC is to create a graduate business learning experience in which students integrate management knowledge and skills in ways that lead to effective decision-making, complex problem solving, and leadership within a global and ethical context.

To accomplish this, graduate business faculty and staff rely heavily on these three activities:

1. Designing and delivering a curriculum that integrates graduate level content and skills into learning experiences that more closely resemble how real business is practiced by the general manager.
2. Creating operational processes and policies that are student-centered.
3. Actively engaging business and community leaders.

### Student Learning Outcomes and Assessments

The Division of Business has adopted four program learning outcomes for the IU MBA Program at IUPUC

Upon completion of graduate business studies at IUPUC students should be able to demonstrate:

#### 1. Communication

- Creates effective visuals as needed.
- Demonstrates appropriate communication mechanics.
- Communicates clearly, expressively and connects to audience.
- Organizes and supports content.
- Works effectively as a member of a team.

#### 2. Critical Thinking

- Clearly frames key issues or problems.

- Interpret relevant information and data.
- Develops feasible solutions.
- Articulates conclusions or recommendations.

### 3. Integration

- Demonstrates proficiency from a business management perspective across all key business functional areas.
- Integrates knowledge from multiple disciplines to frame business situations.
- Establishes a high level, business management perspective in problem solving.
- Demonstrates awareness of the social and cultural context of the business enterprise.

### 4. Professional Development

- Demonstrates effective application of knowledge and skills to projects.
- Contributes meaningfully to community or campus organizations.
- Demonstrates proficiency in a professional networking environment.

## MBA Curriculum

The modular format allows us to more easily integrate knowledge, skills, exercises, cases, and your overall learning experience. As a student, this means you will have comprehensive learning experience focused on the following themes:

### Enterprise Structures

The basic structure of the business enterprise is molded by its legal, economic, and technology environments and by the ways in which it measures and controls prices and costs.

### Strategy, Alignment and Change

Effective management begins when leaders of departments, divisions, and firms adopt a strategic view of their organizations.

### Global Perspectives and Human Resources

Effective managers in successful business enterprises are ones that understand how to manage a diverse workforce in a global setting.

### Innovation and Application

Increasingly, problem solving in business management is about a manager's ability (and willingness) to imaginatively frame questions and consider multiple perspectives.

### Analysis and Decision Making

The essential knowledge and skills in financial, marketing and operations management make the most sense when learned as interrelated functions.

### Managing and Leading

This capstone experience is designed so you can demonstrate how well you have developed and can apply general management tools and thinking.

## MBA Contact Information

### MBA Program

### Arvin Center for Graduate Business and Executive Education

#### Indiana University-Purdue University Columbus (IUPUC)

4601 Central Avenue  
Columbus, IN 47203

812.348.7288 or 812.348.7273  
812.348.7276(Fax)

iumbacol@iupuc.edu  
www.iupuc.edu/mba

## Master of Mental Health Counseling Program Overview

### Overview

The Indiana University master's degree in mental health counseling at Indiana University-Purdue University Columbus (IUPUC) is 60-credit hour program that prepares you for a career as licensed mental health providers. You will learn to assist individuals, groups, and families in maximizing their human potential and managing life challenges and transitions.

As graduate of our program, you will gain the knowledge, skills, and experiences needed to provide expert service guided by the values of ethical practice and respect for all people. The curriculum is consistent with accreditation guidelines and meets the criteria for preparing you for licensure as a mental health counselor in the State of Indiana.

Courses are sequenced so that you can complete the degree on a full- or part-time basis. In addition to course work, you will complete the following field experiences:

- 100-hour practicum
- 600-hour internship
- 300-hour advanced internship

### Careers and employment

Demand for graduates of mental health counseling programs is expected to be strong. IUPUC is preparing the region's next generation of professionals with the knowledge, skills, and values to deliver effective, ethical counseling services. As a graduate, you may seek employment in community or social service agencies, like mental health clinics, hospitals, group homes, correctional facilities, substance abuse treatment centers, domestic violence shelters, women's centers, or rehabilitation programs for those who are incarcerated. You may also work with clients in private clinics, hospitals, or rehabilitation facilities. You are eligible to apply for state licensure in mental health counseling.

### Program objectives

Our goal is to educate students with professional identities as well-trained, fully licensed mental health counselors who are active participants in their profession. As a student in this program, you can expect to:

- Develop a broad background in foundational fields such as personality theory, development, interpersonal relationships, psychopathology, and psychopharmacology.

- Gain expertise in clinical assessment, treatment, coordination, collaboration, referral, and prevention related to behavioral health issues in individuals, groups, and families.
- Engage in research to understand and critique the research literature and to employ and evaluate evidence-based practices.
- Complete coursework and field experience, integrate theory and practice, and link assessment to treatment within the context of various theoretical perspectives.
- Understand the role of mental health counseling within the contexts of the community, individual and cultural/ethnic diversity, and relevant ethical and legal issues.

### What to expect

Pursuing the Indiana University Master of Arts in Mental Health Counseling degree at IUPUC requires motivation and dedication. The program is academically challenging and requires full engagement in class discussions, hands-on activities, and field experiences in small, interactive classes. Your classmates represent diverse educational, professional, and life experiences.

At IUPUC, you will work closely with expert mental health counseling faculty and professionals in your field experiences. You will be encouraged to work collaboratively with your fellow classmates, the start of professional networking, as a pathway to increased learning opportunities and develop skills in collegial professional practice.

## MHC Admissions

### Applying to the M.A. in Mental Health Counseling program

If you are ready to begin the IUPUC Mental Health Counseling program, the first step is to apply for admission.

### Eligibility

To be admitted to the program, you must have an undergraduate degree from an accredited college or university with a minimum undergraduate GPA of 3.0 on a 4.0 scale. In addition, you must be proficient in English and possess at least 15 undergraduate credits in psychology or behavioral science courses.

The application materials and information required for admission consideration are:

- Completed Mental Health Counseling graduate admission application form.
- Official transcripts for undergraduate and graduate courses or degrees completed at accredited institutions.
- Official Graduate Record Examination (GRE) scores on the verbal, quantitative, and analytical writing sections.
- Three (3) letters of recommendation from persons qualified to evaluate your academic performance, professional behavior, and personal character.
- Two (2) reflective essays (refer to application instructions)
- Required application fee.

- Personal interview with the Mental Health Counseling faculty.

Application Deadlines: December 1<sup>st</sup> (Early Decision) and February 1<sup>st</sup>.

Check the [website](#) for updated application information!

Enrollment of New Students: We admit new students every fall semester.

### MHC Contact

For program information, please contact:  
Anibal Torres Bernal, Ph.D.  
Director, Mental Health Counseling Program  
(812) 348-7385 office  
atorresb@iupuc.edu

## Licensure

### Becoming a Licensed Mental Health Counselor (LMHC) in Indiana

Graduates of the Indiana University Master of Arts (M.A.) in Mental Health Counseling degree at Indiana University-Purdue University Columbus (IUPUC) must satisfy post-degree professional experience requirements.

For LMHC licensure, the State of Indiana requires 3,000 counseling contact hours and 200 hours of face-to-face supervision by a licensed counselor or other licensed mental health professional and approved supervisor.

For current Indiana requirements, applicants should contact the Indiana State Health Professions Bureau. Those who seek licensure in other states should contact those state boards for requirements.

### MHC Contact

For more information about the Indiana University Master of Arts (M.A.) in Mental Health Counseling degree at Indiana University-Purdue University Columbus (IUPUC), please contact:

Anibal Torres Bernal, Ph.D.  
Director, Mental Health Counseling Program  
Phone: (812) 348-7385  
Email: [atorresb@iupuc.edu](mailto:atorresb@iupuc.edu)

## Academic Policies & Procedures

Indiana University has adopted a code that applies, with only minor differences, to students on all Indiana University campuses. The code spells out what constitutes unacceptable behavior and the procedures to be followed when there are alleged cases of misconduct. What follows is not the code but rather abbreviated and paraphrased statements on key elements of the code: academic and personal misconduct as well as a section on what students should do if they believe that other students, faculty, or staff have violated their rights. The code also explains the procedures employed and how students may appeal decisions. For more information, consult the [Office of the Registrar](#) online. For an online copy of the code, visit [http://www.iupuc.edu/registrar/files/IUPUC\\_Student\\_Code\\_of\\_Conduct.pdf](http://www.iupuc.edu/registrar/files/IUPUC_Student_Code_of_Conduct.pdf).

### A. Academic Misconduct

The university may discipline a student for academic misconduct, which is defined as any activity that tends to compromise the academic integrity of the institution and undermine the educational process. Academic misconduct includes, but is not limited to, the following:

### 1. Cheating

1. A student must not use external assistance on any "in-class" or "take-home" examination, unless the instructor specifically has authorized such assistance. This prohibition includes, but is not limited to, the use of tutors, books, notes, and calculators.
2. A student must not use another person as a substitute in the taking of an examination or quiz.
3. A student must not steal examinations or other course materials.
4. A student must not allow others to conduct research or to prepare any work for him or her without advance authorization from the instructor to whom the work is being submitted. Under this prohibition, a student must not make any unauthorized use of materials obtained from commercial term paper companies or from files of papers prepared by other persons.
5. A student must not collaborate with other persons on a particular project and submit a copy of a written report which is represented explicitly or implicitly as the student's own individual work.
6. A student must not use any unauthorized assistance in a laboratory, at a computer terminal, or on fieldwork.
7. A student must not submit substantial portions of the same academic work for credit or honors more than once without permission of the instructor to whom the work is being submitted.
8. A student must not alter a grade or score in any way.

### 2. Fabrication

A student must not falsify or invent any information or data in an academic exercise including, but not limited to, records or reports, laboratory results, and citations to the sources of information.

### 3. Plagiarism

A student must not adopt or reproduce ideas, words, or statements of another person without an appropriate acknowledgment. A student must give due credit to the originality of others and acknowledge an indebtedness whenever he or she does any of the following:

1. Quotes another person's actual words, either oral or written;
2. Paraphrases another person's words, either oral or written;
3. Uses another person's idea, opinion, or theory; or
4. Borrows facts, statistics, or other material, unless the information is common knowledge.

### 4. Interference

1. A student must not steal, change, destroy, or impede another student's work. Impeding another student's work includes, but is not limited to, the theft, defacement, or mutilation of resources so as to deprive others of the information they contain.

2. A student must not give or offer a bribe, promise favors, or make threats with the intention of affecting a grade or the evaluation of academic performance.

### 5. Violation of Course Rules

A student must not violate course rules as contained in a course syllabus or other information provided to the student.

### 6. Facilitating Academic Dishonesty

A student must not intentionally or knowingly help or attempt to help another student to commit an act of academic misconduct.

### B. Personal Misconduct on University Property

The university may discipline a student for the following acts of personal misconduct which occur on university property:

1. Dishonest conduct including, but not limited to, false accusation of misconduct; forgery, alteration, or misuse of any university document, record, or identification; and giving to a university official information known to be false.
2. Initiating or circulating a report or warning concerning an impending bombing, fire, or other emergency or catastrophe, knowing that the report is false; making a false report concerning a fire or that a bomb or other explosive has been placed in any university building or elsewhere on university property; or transmitting such a report to an official or an official agency.
3. Release of access codes for university computer and duplicating systems and other university equipment to unauthorized persons; use of an access code for a purpose other than that stated on the request for service.
4. Lewd, indecent, or obscene conduct.
5. Disorderly conduct which interferes with teaching, research, administration, or other university or university-authorized activity.
6. Actions which endanger the student, the university community, or the academic process.
7. Failure to comply with the directions of authorized university officials in the performance of their duties, including failure to identify oneself when requested to do so; failure to comply with the terms of a disciplinary sanction.
8. Unauthorized entry, use, or occupancy of university facilities; refusal to vacate a university facility when directed to do so by an authorized official of the university.
9. Unauthorized taking or possession of university property or services; unauthorized taking or possession of the property or services of others.
10. Damage to or destruction of university property or of property on university premises belonging to others.
11. Unauthorized setting of fires on university property; unauthorized use of or interference with fire equipment.
12. Unauthorized possession, use, manufacture, distribution, or sale of illegal fireworks, incendiary devices, or other dangerous explosives.
13. Possession of firearms or other weapons on university property contrary to law; possession or display of any

firearm on university property frequented by the public, except, in the course of an authorized activity, possession of weapons in residence halls on university property in violation of residence hall rules; and intentional possession on university property of a dangerous article or substance as a potential weapon.

14. Acting with violence; and aiding, encouraging, or participating in a riot.

15. Sexual harassment, as defined in section I.A.3 (above) of this code.

16. Harassment based on sexual orientation, as defined in section I.A.4 (above) of this code.

17. Racial harassment, as defined in section I.A.5 (above) of this code.

18. Hazing, defined as any conduct which 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.

19. Physical abuse of any person, including the following:

1. The use of physical force or violence to restrict the freedom of action or movement of another person or to endanger the health or safety of another person;
2. Physical behavior that involves an express or implied threat to interfere with an individual's personal safety, academic efforts, employment, or participation in university-sponsored extracurricular activities and causes the person to have a reasonable apprehension that such harm is about to occur; or
3. Physical behavior that has the purpose or reasonably foreseeable effect of interfering with an individual's personal safety, academic efforts, employment, or participation in university-sponsored extracurricular activities and causes the person to have a reasonable apprehension that such harm is about to occur.

20. Verbal abuse of another person, including the following:

1. a. An express or implied threat to:
  1. Interfere with an individual's personal safety, academic efforts, employment, or participation in university sponsored activities; or
  2. Injure that person, or damage his or her property; and under the circumstances causes the person to have a reasonable apprehension that such harm is about to occur; or
2. "Fighting words" that are spoken face-to-face as a personal insult to the listener or listeners in personally abusive language inherently likely to provoke a violent reaction by the listener or listeners to the speaker.

21. Unauthorized possession or use of alcoholic beverages.

1. The following actions are prohibited by Indiana University:
  1. Use or possession of alcoholic beverages on university property, or in the course of

a university activity or student organization activity, contrary to law;

2. Use or possession of alcoholic beverages in any undergraduate residence supervised by the university, including fraternity and sorority houses;

3. Use or conspicuous possession of alcoholic beverages in or on any property of the university frequented by the public, except in areas specifically designated by the chief administrative officer of the campus.

2. The possession or use of alcoholic beverages is not forbidden in the following areas of the university unless otherwise prohibited by law:

1. In designated graduate housing and residence hall buildings designated as restricted to students who are twenty-one years of age or older, including residence rooms and certain common areas approved for such purpose by the Dean of Students. The Dean of Students may enact rules to regulate such use or possession.
2. In designated undergraduate residences supervised by the university when temporary permission is granted by the Dean of Students for events at which persons twenty-one years of age or older may lawfully possess and use alcoholic beverages.
3. In designated family housing, including residence rooms, apartments, and certain common areas approved for such purpose by the Dean of Students. The Dean of Students may enact rules to regulate such use or possession.
4. In Union Buildings, including guest rooms and certain other areas specifically approved by the chief administrative officer of the campus.
5. In other areas, such as private offices and faculty lounges, not accessible to the public and specifically approved by the chief administrative officer of the campus.

3. Student organizations that serve or permit possession of alcoholic beverages at student organization functions, on or off campus, may be disciplined if violations of alcoholic beverage laws or of university regulations occur. Individual students who plan, sponsor, or direct such functions also may be subject to discipline.

22. Unauthorized possession or use of illegal drugs.

1. The following actions are prohibited by Indiana University:
  1. Use or possession of any drug or controlled substance, or of drug paraphernalia, on university property or in the course of a university activity or student organization activity, contrary to law. It is not a violation of university regulations for students to possess such drugs or controlled substances if they are possessed under the terms of a valid and legal prescription for such drugs or controlled substances.

2. Use of university facilities to manufacture, process, or distribute any drug or controlled substance contrary to law.
  3. Sale, gift, or transfer of drugs, controlled substances, or drug paraphernalia to Indiana University students, whether or not such sale, gift, or transfer occurs on university property or in the course of a university activity or student organization activity.
2. The term "controlled substance" is defined in Indiana law, and includes, but is not limited to, substances such as marijuana, cocaine, narcotics, certain stimulants and depressants, and hallucinogens.
23. Violation of other published university regulations, policies, or rules.
24. A violation of any Indiana or federal criminal law.

### C. Personal Misconduct Not on University Property

The university may discipline a student for acts of personal misconduct on or off university property. Acts of personal misconduct that are not committed on university property but arise from university activities that are being conducted off the university campus, or if the misconduct undermines the security of the university community or the integrity of the education process are also subject to disciplinary action. Examples of this kind of personal misconduct are:

1. Altering academic transcripts
2. Arson
3. Battery
4. Drug trafficking
5. Forgery
6. Fraud
7. Harassment of a student
8. Hazing
9. Rape
10. Sexual Assault
11. Trafficking in term papers
12. Unauthorized use of a computer off the campus to obtain access to information on campus
13. Participation in group violence

### D. Complaints Against Faculty, Staff, and Students

When a student believes that any of his or her rights, as defined in Part I of the *Code of Student Rights, Responsibilities, and Conduct* have been violated by another student or by a member of the university faculty, administration, staff, or a student organization, the student should ordinarily attempt to resolve the matter by making an informal complaint to the person or organization involved.

If the problem is not resolved to the complainant's satisfaction by contacting the person(s) involved, personnel in the Dean of Students Office or other appropriate persons can be consulted about options for resolution of the problem.

### E. Disruptive Conduct

IUPUC strives to maintain a spirit of civility in a community in which diversity is welcomed. Every student, staff, and faculty member plays a significant role in promoting an

environment that is conducive to academic excellence by fostering a climate of civility and mutual respect. In all circumstances it is expected that everyone will act with respect for one another. Difference of opinion and dissent are ordinarily thought of as disagreement or debate. They are not "disruptive conduct" as long as they do not impinge upon the rights of others or interfere with the teaching/learning process in an academic setting. As a community which values the uniqueness of people, behavior which is thought of as "different" or "unusual" is not "disruptive behavior" unless it infringes upon the rights of others or seriously interferes with the teaching/learning process in an academic setting.

The IUPUC instructional program is based on the premise that students enrolled at IUPUC are entitled to receive instruction free from interference by other students. When students are admitted to IUPUC, they accept the responsibility to conform to all IUPUC rules and regulations. Students are expected to comply by conducting themselves in an orderly and cooperative manner.

## Academic Level

Information about **credit hours** applies to several areas: the quantity and other factors that determine [Class Standing](#), how many credit hours are required for [Full-time vs. Part-time](#), and credit hour [Load Limits](#) for a term.

## Academic Probation

### Academic Probation Policy for Continuing Students

Students are placed on probation any time their cumulative GPA falls below their division or program GPA of good standing. Individual divisions and programs vary in their policies. Contact individual programs for further information on probation.

At IUPUC, a 2.0 cumulative GPA is the minimum necessary to be considered in good academic standing. Students below this GPA are not making progress toward degree completion and are subject to dismissal from the university.

Students whose cumulative GPA falls below a 2.0 will be placed on probation. Students will be informed by letter of their probationary status. Students may be continued on probation when their semester GPA is above a 2.0 but their cumulative GPA is below a 2.0.

Students will be removed from their probationary status once their cumulative GPA is above 2.0.

### Academic Probation/Dismissal Policy for Beginning Students

This policy applies to all beginning students who enroll in 12 or more credit hours their first semester at IUPUC. Beginning students (those admitted with less than 12 credit hours of transfer credit) who attempted 12 or more credit hours (including Ws) must have obtained at least a 1.0 GPA at the end of their first semester or they will be dismissed. This includes students whose first semester is summer. Students who withdraw from all courses are exempt from this policy. Beginning students that receive between a 1.0 and a 2.0 GPA the first summer will be placed on probation in accordance with the policy for continuing students discussed above.

- Students who are dismissed for the first time must sit out for a minimum of one fall or one spring semester before being eligible to petition for reinstatement.
- Students dismissed two or more times must remain out of school for at least two consecutive (fall and spring or spring and fall) semesters before being eligible to petition for reinstatement.
- Students must petition by the established deadlines to be considered for reinstatement. Reinstatement is not automatic.

This policy was ratified by IUPUC Faculty Senate on February 8, 2011

## Dismissal

Students may be dismissed from their division or program if they fail to meet academic or professional standards. The student will be informed of the dismissal in writing by the division head or the division head's campus representative.

### Academic Dismissal Policy for Beginning Students

This policy applies to all beginning students who enroll in 12 or more credit hours their first semester at IUPUC. Beginning students, both new and transfer, who attempt 12 or more credit hours (including Ws) must obtain at least a 1.0 GPA at the end of their first semester or they will be dismissed. This includes students whose first semester is summer. Students who withdraw from all courses are exempt from this policy.

- Students who are dismissed for the first time must sit out for a minimum of one fall or one spring semester before being eligible to petition for reinstatement.
- Students dismissed two or more times must remain out of school for at least two consecutive (fall and spring or spring and fall) semesters before being eligible to petition for reinstatement.
- Students must petition by the established deadlines to be considered for reinstatement. Reinstatement is not automatic.

This policy was ratified by IUPUC Faculty Senate on February 8, 2011 and amended on March 16, 2012.

### Academic Dismissal Policy for Continuing or Returning Students

Some factors considered when continuing or returning students are dismissed are failure to maintain a minimum GPA of 2.0 (IUPUC's GPA of good standing) or the division's GPA of good standing after being placed on probation, a lack of progress toward the degree requirements in the judgment of the faculty, or a lack of acceptable ethical or professional behavior. Students who have completed a minimum of 12 IUPUC/IUPUI grade point average (GPA) hours are subject to dismissal if they fail to attain an overall GPA of at least 2.0. Continuing and returning students should check with their academic division for specific information about the dismissal policy of that division.

### Reinstatement

Students who are dismissed for the first time must sit out for a minimum of one semester and petition by the established deadlines to be reinstated. Reinstatement is not automatic. Students' chances of reinstatement will be

enhanced by the student removing grades of incomplete, undertaking assessment of their academic problems, participating in career workshops, and providing evidence of their ability to do successful academic work upon their reinstatement to IUPUC.

Students dismissed more than once must remain out of school for at least one full year and petition by the established deadlines to be reinstated. Readmission after a second dismissal is extremely rare. Students' chances of reinstatement will be enhanced by the length of time the student has been away from the university, successful academic course work completed at other accredited institutions, military service, participation in career workshops, and providing evidence of their ability to do successful academic work upon their reinstatement to IUPUC.

Individual divisions may refuse to readmit students on the basis of their academic records.

Students already enrolled in and even attending classes will be administratively dropped from those classes and their money returned if they are dismissed.

## Grade Appeals

### Grade Changes

On occasion, students inquire about the possibility of changing a grade. This may be because the student believes there was an error in the calculation or assigning of the grade or the student failed to officially withdraw in a timely fashion.

### Policy on Consideration of Requests for Change of Grade after Conclusion of the Course

These policies apply to undergraduate students only. Any requests by graduate students for change of grade after the conclusion of a course are subject to the policies of the academic unit.

This policy refers to requests for change of grade, grade discrepancies or grade disputes following the conclusion of the course and not requests for withdrawals after the conclusion of the course.

Undergraduate units will not consider petitions for change of grade from concluded courses older than 5 years. Academic units may choose to use a shorter time period than the campus limit. Academic units may make an exception only if an extremely serious and documented circumstance (e.g., coma, unmanageable schizophrenia, etc.) literally prevents the student from filing the petition within the 5-year period.

Other options, such as grade forgiveness, grade replacement and probationary readmission are possible alternate methods that students can use to continue their education.

For the situation where a student believes there was an error in the calculation or assigning of a course grade it is the responsibility of the student to contact the course instructor to discuss the grade and make his or her case to have the grade changed. If the course instructor declines to support the student's request for a change of grade or in situations where the instructor cannot be contacted, the student may appeal the course grade following the procedures established by awarding academic unit.

Requests for change of grade after the conclusion of a course will be honored only to correct a mistake or error

in calculating or assigning the course grade. To facilitate this process, the Office of the Registrar shall maintain a Change of Grade Petition document.

The Change of Grade Petition shall require course information, a provision for the student to make a personal statement explaining why she or he believes the grade should be changed and a provision to include supporting documentation.

Decisions on grade changes are made within the schools. If the request is supported, the school will notify the Office of the Registrar of the new grade and the student will be mailed a notification of the grade change, including a new cumulative GPA. For this reason it is important that students keep their addresses current. If the request is denied, students will be so notified by the school.

Approved by IUPUI Faculty Council December 5, 2002

### Process

The student may appeal a grade following the process established by the IU school offering the course. A change of grade petition is found on the IUPUC [Change of Grade](#) web page. The form should be completed online, printed, and returned to the Office of Registrar Services.

The Change of Grade Petition requires course information (course title, semester taken) as well as provides the student the chance to make a personal statement explaining why she or he believes the grade should be changed. Please note that individual schools may impose a deadline beyond which they will not consider requests for changes of grade for a particular semester.

If the student's performance or withdrawal was medically related, the student should provide appropriate supporting documentation. Only persons with a need to know will see any confidential materials you may submit.

Decisions on grade changes are made within the schools. Please allow 3-4 weeks for the review process and somewhat longer in the summer and during semester breaks. You will be notified in writing with the decision. Please be sure your address is current.

## Grade Replacement Policy

The IUPUC Grade Replacement Policy (formerly known as the FX policy) was revised effective fall 1996. This policy allows approved undergraduate students seeking their first degree to repeat courses—a maximum of 15 credit hours subject to division approval—in order to improve poor grades, including grades of F. If a student earns the same or a higher grade after repeating the course, only the second grade will be counted in the cumulative GPA.

Replacement does not happen automatically, so students must notify the division advisor that the course has been taken a second time and that they wish to exercise this option. Certain restrictions apply, and the grade replacement policy may not be honored by some divisions when considering admission to the division or in computing graduation honors. For more information, students should contact their division.

The 15-credit-hour limit includes any course(s) previously replaced using the FX policy. A student may exercise the Grade Replacement Policy no more than two times for a single course, and once invoked, a student may not

reverse the grade replacement granted in a particular course. The replaced grade will be excluded from the cumulative GPA, but the course and the replaced grade will remain on the student's academic record with a notation indicating that the grade exists but is excluded from the cumulative GPA. The use of the forgiveness policy does not preclude a student from using grade replacement for course work taken subsequent to re-enrollment as defined by the forgiveness policy.

If the original course was taken on another IU campus, that campus must be willing to place the replacement flag on the course at IUPUC's request.

Not all IUPUC units accept the general policy as stated above. If a student changes programs, divisions, or campuses to a program that does not recognize the Grade Replacement Policy, the original grades will once again be averaged into the student's GPA.

## Graduation

Associate, bachelor's, and master's degrees are conferred in December, May, and August each year. Commencement Day Ceremonies, held in Indianapolis and Columbus, occur in May each year. Present on the stage in Columbus are the Vice Chancellor and Dean of IUPUC and the Division Heads of IUPUC. The IUPUC, IU, and Purdue Alumni Associations induct their graduates into their respective associations and provide them with an introductory membership.

Information about preparing to graduate and information regarding the ceremony, including date and time, is available at [commencement at IUPUC](#).

## Reinstatement

On occasion, students are dismissed from IUPUC or another IU campus due to poor academic performance. After sitting out for some time, students can apply to be reinstated. Read below to find out more about submitting a reinstatement petition. Please note that this is the reinstatement petition to University College at IUPUC. **If you were dismissed from another division (e.g., Education, Business, etc.) you will need to contact that division to inquire about their reinstatement procedures. Do not use this petition.**

1. Reinstatement will be the decision of the UCOL Probation/Reinstatement Committee.
2. Students who are reinstated will be classified as probationary students until their cumulative GPA is 2.0. During the first semester after being reinstated, the student must achieve a semester GPA of at least 2.3. In each subsequent semester on probation, the student must achieve a semester GPA of 2.0. Failure to meet the semester GPA requirement will result in dismissal.

IUPUC University College policy is that students whose cumulative GPA is below 2.0 and they have been dismissed from any IU campus, must sit out for a minimum of one semester (fall or spring) and petition by the established deadlines to be reinstated. Students who have been dismissed two or more times, must sit out for a minimum of one full year before petitioning for reinstatement.

University College does not reinstate for the summer sessions.

### Reinstatement Deadlines

Fall semester: June 1st

Spring semester: October 1st

**No exceptions will be made for these deadlines.**

### Academic Dismissal Reinstatement Fee

IUPUC will assess a \$55.00 fee to students who have been dismissed for academic reasons and who wish to return to University study. The fee will be assessed at IUPUC at the time an appeal is submitted. Students may pay by money order or check payable to "IUPUC".

IUPUI Policy on Returned Checks: [www.bursar.iupui.edu/returnedchecks.htm](http://www.bursar.iupui.edu/returnedchecks.htm)

### Reinstatement Petition Petition

## Repeating Courses

If a student repeats a course, it will only be counted once toward graduation or electives in the program, though the grades will be calculated in the overall GPA. Exceptions are variable topics courses, internships, or some other courses that can be taken more than once for credit. Courses repeated under the grade replacement policy may be excluded from the overall GPA. See the individual division's section of this bulletin to determine any restrictions on use of grade replacement.

## Transfer Credits

### IUPUC's Transfer Credit Policy

As part of your application review, the Office of Undergraduate Admission will review courses taken at other colleges and university and determine where transfer credits can be awarded. In order to have your transcripts formally reviewed, you must first apply for undergraduate degree-seeking admission, and submit official transcripts from each school you have attended after high school. If you have received college credit while still attending high school, you still need to submit a transcript from the college awarding the credits.

Most often, IUPUC will transfer credits into the university from another college or university if there is an equivalency course offered on our campus. When an equal course is not available, the course may either be transferred in as a undistributed elective, or a decision may be made that there is no transferable credit.

IUPUC and IUPUI is accredited by the North Central Association of Colleges and Schools (NCA-HLC), and in order to transfer credits from another institution, IUPUC requires that the student received at least a grade of "C" or better and that the school to be regionally accredited. When a school is not regionally accredited, we may transfer up to 15 hours of general education coursework only; however, this is not automatic, there are several other criteria those courses have to meet in order for them to transfer as undistributed credits.

### Transfer, Test, and Special Credit

Courses accepted in transfer from other institutions are listed under the appropriate headings. No grades are awarded and the course numbers and titles reflect Indiana University equivalents. Transfer hours and quality points are not reflected in the cumulative grade average, nor do they appear in the "Hrs Earned" field. The total number of transfer hours on the record does appear in a separate transfer hour category in the grade point average summary. A course suitable for credit which does not parallel an Indiana University course at the campus of evaluation may be designated by a course subject followed by "UN" and a number indicating an equivalent Indiana University course (class) level. For example, HIST-UN 200 represents a 200 (sophomore) level History course. Applicability of accepted transfer credit toward a particular degree is determined by the Indiana University school or division offering the degree program. Credit awarded as a result of placement tests, credit by examination, or successful completion of a higher level course may be reflected as Special Credit with a transcript note or may appear as separately designated "Test Credits." See the appropriate division for more detailed information.

### Transfer Credit Limits

Generally, no more than 64 credit hours earned in accredited junior or community colleges can be applied toward a degree. See the appropriate division for more information regarding transfer credit limits.

## Undergraduate Policies

- Academic Level
- Academic Probation
- Administrative Withdrawal
- Appeals
- Dismissal
- GPA
- Grade Replacement
- Graduation
- Reinstatement
- Repeating a Course
- Transfer

## Academic Policies & Procedures

### Required Grade Point Average

In addition to completing all the required course work, students must have a specific overall grade point average and a specific GPA in their program to graduate. Most divisions also require grades of C or higher in program courses. Students should familiarize themselves with the policies of their program.

## Administrative Withdrawal

### Preamble

Attendance has been proven to be a key factor in academic success. Faculties of IUPUC are supportive of all course coordinators' and instructors' efforts to ensure that students in their courses are attending course meetings and/or participating in required course activities.

### Policy

This policy is effective for courses that are at least 6 weeks in duration. Students who miss more than 50% of an undergraduate course meetings and/or required activities during the first 25% of the course duration may be administratively withdrawn from that course unless documentation of contact with their course instructor, academic unit or academic advisor is provided. Students enrolled in Undergraduate courses may be administratively withdrawn regardless of their class standing. In addition, this Administrative Withdrawal Policy is subject to the following provisions:

- The Administrative Withdrawal Policy must be included in the course syllabus with specific language about the policy (see recommended language below). Students must be informed that their administrative withdrawal may have an impact on their Financial Aid awards and/or student visa status.
- The course instructor initiates the administrative withdrawal process and has the right to stop the process at any time. Students will be notified by the Office of the Registrar prior to being administratively withdrawn from a course.
- Administrative withdrawal will take place after the fee refund period. Students who are administratively withdrawn from the course will not be eligible for a tuition refund.
- Administrative withdrawals will be managed through the student performance roster.
- Administrative withdrawal attendance values will be available after the refund period for each course. Faculty will submit requests to administratively withdraw by selecting the appropriate attendance value:
  - Administratively withdraw – No attendance
  - Administratively withdraw – Some attendance
- Academic units may establish an Administrative Withdrawal Policy more restrictive than provisions outlined in this policy. It is the responsibility of the academic units to communicate their policy to their students and put this information in the course syllabus.

The Registrar's office will maintain data on the number of administrative withdrawals for each course.

Revised and Approved by IFC Academic Affairs

## Adaptive Educational Services (AES)

IUPUC is committed to helping students with disabilities achieve their goals by augmenting their existing strengths and abilities. Adaptive Educational Services (AES) provides a range of services based on the documented needs of qualified students with disabilities that meet the requirements of the American Disabilities Act (ADA) and the Rehabilitation Act of 1973.

AES facilitates tests that require extended time, provides interpreters, coordinates financial support and service through Indiana Vocational Rehabilitation, assists in registration, provides note takers, works with faculty to make reasonable modifications of programs and courses for students with disabilities, upholds academic standards,

and maintains legally appropriate confidentiality for students with disabilities.

Students are encouraged to contact the AES office several weeks before the start of each semester to ensure services are in place.

To apply for AES services, please [click here](#) for more information and next steps or contact the AES Coordinator at (812)375-7525.

## Alumni Association

Upon graduation, IUPUC students not only become alumni of Indiana University or Purdue University, but also of IUPUC. The IUPUC Alumni Association is dedicated to connecting alumni, building lifelong relationships, and serving IUPUC.

IUPUC Alumni Association is a vital link between alumni, students, faculty, staff, and the community. The vision is to improve the lives of students and alumni through education, personal development, and camaraderie. The Association serves as a dynamic organization by facilitating communications and sponsoring a wide variety of programs to actively engage alumni in the success, growth, and development of IUPUC.

Annual Alumni Association-sponsored activities include the Ice Cream Social, Cultural Business Etiquette, Etiquette Luncheons, Hungry Mile, Harvest Bicycle Boogie, and Grad Bash Event. For more information on these programs and the Association, please contact the Office of Alumni Relations at (812) 375-7531 or [alumni@iupuc.edu](mailto:alumni@iupuc.edu) or visit the [Alumni Relations website](#).

## Calendar

- [Academic Calendar](#)
- [Events Calendar](#)

## Resources and Services

- Adaptive Educational Services (AES)
- Alumni Association
- Bursar
- Calendar
- Counseling and Psychological Services
- Career Exploration, Internships, and Job Search Assistance
- Graduation
- International Students
- Office of the Dean of Students
- Ombudsman
- Parking and Transportation
- Photo ID Cards
- Safety
- Veterans Affairs

## Career Exploration, Internships and Job Search Assistance

Career services are available for all IUPUC students and alumni, assisting them in developing and implementing a sound career planning strategy. Students can receive help in choosing a major, obtain information on employment trends, and learn about career and internship opportunities in local areas, the state of Indiana, and across the nation.

Students have the opportunity to meet with a career counselor for an individual career counseling appointment. Students can choose to complete a career interest or personality assessment such as the Strong Interest Inventory, Do What You Are, or the Myers-Briggs Type Indicator. Workshops in choosing a major and job search strategies, including resume writing and interviewing techniques, are offered. A career and internship fair is held each spring and fall at the Learning Center. Information on dates of workshops and fairs is available on the website [www.iupuc.edu/careerservices](http://www.iupuc.edu/careerservices).

Students and alumni can access Career Point, the online job and internship posting at [www.iupuc.edu/careerpoint](http://www.iupuc.edu/careerpoint).

Students who are undecided about their major are encouraged to visit the Career Services office early in their first year of college to start the self-assessment process and begin to research majors and careers.

The Career Services office is located in the Learning Center building, Suite 1200. For more information visit the website [www.iupuc.edu/careerservices](http://www.iupuc.edu/careerservices) or call 812-375-7527.

## Counseling Services for IUPUC Students

### Solutions Student Assistance Service

Sometimes, life presents us with circumstances that challenge our ability to cope. Along with work, family, and other responsibilities, students must also manage academic responsibilities. Students at Indiana University-Purdue University Columbus (IUPUC) can take advantage of up to five free sessions with a licensed counselor.

Solutions Student Assistance Service (SAS) provides free, local, professional, and confidential consultations for IUPUC students. Solutions SAS can help you clarify and develop a plan to address life's challenges. Their counselors can help you find the tools and support you need to navigate the tough times and set clear priorities, both now and for the future.

All IUPUC students are eligible for up to five (5) free counseling sessions per documented issue, which include, but are not limited to:

- Depression
- Addiction
- Stress
- Grief/Loss
- Anxiety

If more than five sessions are needed, students can utilize their individual medical and health insurance. Other financing options can be discussed and arranged with a [Solutions staff member](#).

To utilize these services, please contact [Solutions](#) directly at 812.377.5074 or 1.800.766.0068. If you have an after-hours emergency, you can call the above numbers and speak to a crisis agent.

Solutions is a service of [Centerstone Indiana](#).

### Counseling and Psychological Services (CAPS)

If you drive to Indianapolis, the professionally trained counselors of IUPUI Counseling and Psychological

Services provide services to IUPUC students, faculty, and staff who may be experiencing emotional, psychological, and/or cognitive difficulties that have an impact upon academic or work performance.

Counseling is free to students. Private and confidential appointments are available in individual, couples, or group formats. Evening appointments are available Monday through Thursday by appointment only.

Assessments are also available for learning disabilities and attention deficit disorder by licensed psychologists on a fee-per-service basis. For information, call (317) 274-2548; e-mail [@](mailto:), or visit the Web site at [life.iupui.edu/caps](http://life.iupui.edu/caps).

## Dean of Students Office

The dean of students is charged with working with students, faculty, staff, and administrators to promote ethical behavior and civility. The dean of students is the chief judicial officer for issues related to the Code of Student Rights, Responsibilities, and Conduct. Every student should be familiar with the code and can obtain a copy at this [link](#). For more information, contact the Office of the Registrar, (812) 348-7287.

## Graduation

Associate, bachelor's, and master's degrees are conferred in December, May, and August each year. Commencement Day Ceremonies, held in Indianapolis and Columbus, occur in May each year. Present on the stage in Columbus are the Vice Chancellor and Dean of IUPUC and the Division Heads of IUPUC. The IUPUC, IU, and Purdue Alumni Associations induct their graduates into their respective associations and provide them with an introductory membership.

Additional information regarding the ceremony, including date and time, is available at [commencement celebration at IUPUC](#).

## International Students

The Office of International Affairs Web site (<http://international.iupui.edu/>) provides information on admissions for international undergraduates and graduates, links to the online applications, downloadable and printable application and financial support agreement forms, and links to Web sites of other offices. All policies, procedures, and guidelines for international admissions that are enforced at IUPUI are also applicable for IUPUC students.

To apply for admissions at IUPUC an online application must be submitted. Undergraduate applicants apply to [www.iupuc.edu/applynow](http://www.iupuc.edu/applynow) and graduate applicants apply to [www.iupuc.edu/gradapply](http://www.iupuc.edu/gradapply). Once the application has been submitted, applicants must provide all official and original educational documentation to the university, to include all transcripts, diploma's, and mark-sheets. If they are not in English, a professionally translated version must be submitted along with the non-English document.

For additional information on applying to IUPUC as an international student, please visit the following links.

English Proficiency (Undergraduate): <http://international.iupui.edu/admissions/how-apply/freshman/english.html>

English Proficiency (Graduate): <http://international.iupui.edu/admissions/how-apply/graduate/english.html>

Application Process (Undergraduate): <http://international.iupui.edu/admissions/how-apply/freshman/index.html>

Application Process (Graduate): <http://international.iupui.edu/admissions/how-apply/graduate/index.html>

Deadlines: <http://www.iupuc.edu/admissions/how-to-apply/international-student/deadlines/>

## Office of the Bursar (Student Account Services)

The Office of the Bursar collects payments for student fees, orders refund checks, and applies financial aid credits. The Office of the Bursar also accepts authorizations for sponsor billings from qualifying governmental and corporate agencies.

### FEES

IUPUC tuition is set annually by the Trustees of Indiana University. Current fee information appears in the Registration Guide, available [online](#), and the rules that determine whether students are residents or nonresidents for fee-paying purposes are available [online](#) as well. Undergraduate programs and most graduate/professional programs charge by the credit hour.

In addition to tuition, there are some special course fees for equipment or supplies; all graduates and undergraduates are assessed a General Fee and Repair and Rehabilitation Fee. New students will be charged a New Student Enrollment Fee. The semester parking fee is optional, and books and supplies are additional. Various payment options are described in the Registration Guide. See [bursar.iupuc.edu](http://bursar.iupuc.edu) for more information, including current fees.

Students with anticipated aid listed on their (One.iu) Student Center record, under Finances, will only need to pay the tuition and fees in excess of the amount of anticipated aid listed. If the anticipated aid has not been credited by the second statement due date of the semester, it is the student's responsibility to resolve his or her issue with the financial aid office or personally pay the balance. Students are not removed from classes for failing to pay their bills.

If a bill remains unpaid and the student does not withdraw during the refund period, he or she is still responsible for the unpaid tuition and fees regardless of attendance or grade received. If the student withdraws, the bills will be adjusted accordingly, only if the withdraw occurs during a refund period. It is, therefore, critical that students check with the Office of Student Financials or monitor their accounts via [One.iu.edu](http://One.iu.edu) to determine whether they received financial aid.

## Parking and Transportation

### General Information

Parking is available to students, staff, and faculty by permit. Faculty and staff may purchase year-round "EM" permits based on the fiscal year July 1 through June 30. Students are eligible to purchase an "ST" permit. Students may purchase their semester parking permits when registering for classes. All permit purchases are initiated through a centralized, online portal. The permits are delivered via USPS regular mail.

Parking regulations are enforced 24 hours a day, 7 days a week. Parking without a permit or in an invalid space will result in a citation. Repeat offenders risk the possibility of having their cars towed or being checklisted from registering for classes or purchasing a new parking permit.

People with a physical disability should contact the bursar's office to request a special parking permit. The staff can authorize special permits for short-term disabilities, but students must get state certification before receiving a special long-term parking permit. Disabled permits allow you to park in any parking area.

### Parking Fees and Fines

For current information, please visit the Office of the Bursar online for fees and fines.

### Parking Policy

- All vehicles parked in a permit lot must properly display a parking permit attached to the rear view mirror so that the letter designation is clearly visible from the front of the vehicle.
- Parking of motor vehicles on campus is confined to areas designated for that purpose. Parking is prohibited on lawns, in construction/maintenance areas, or any other area that would mar the landscape of campus, create a hazard or interfere with use of University facilities by others.
- Students, Faculty, and Staff may not park in Visitor Parking. Visitor parking is limited to IUPUC visitors only. If someone will be visiting for more than one hour, they must go to the IUPUC Business Office and obtain a temporary permit.
- Any vehicle in violation of parking regulations or any which are apparently abandoned (**left more than 48 hours**) may be towed and stored at the owner's expense.
- During the winter months, and when there is snow on the ground, please make every attempt to remove your vehicle from campus property after hours. Vehicles left on campus may become "Plowed In" during snow removal. Please note that this is not intentionally done, but is an unavoidable component of the snow removal process.
- Accumulation of 2 or more unpaid parking citations can result in a car being booted. All fines will be paid to the Bursar's Office as well as a \$50 boot removal fee prior to the vehicle being released.
- In addition to IUPUC regulations, Students, Faculty, Staff and visitors are subject to the parking rules and regulations set forth by IUPUI where applicable on the IUPUC Campus.

## Photo ID Card

The official form of identification for members of the IUPUC campus community is the Campus card (C-card).

All full- and part-time students, faculty, and staff are eligible to receive one. Simply visit the Office of Registrar Services in CC156M, 8AM-5PM Monday through Friday to have your photo taken.

This multi-purpose card is required by all: 1) to release print jobs from all public computers on campus, 2) to check out books and other material from the University Library, and 3) to purchase computer software and certain other items from the Barnes and Noble Bookstore in the Columbus Learning Center.

In addition, you can use your C-card to pay for purchases in the IUPUC Café. For this purpose, transfer funds to your IUPUC C-card from your personal bank account via the IUPUI Web site: [www.jagtag.iupui.edu](http://www.jagtag.iupui.edu). For students, a funds transfer may also be requested via the EZ Deposit option available during class registration approximately 6 weeks prior to the start of each semester. Look for the "Optional Fees" section.

Call 812-348-7220 or email registrar@iupuc.edu with any questions about the C-card.

## Safety

### Emergency Procedures

In an emergency, from any on-campus phone, dial 9-911.

### Building Security

IUPUC has no student housing. Building hours are determined by the Vice Chancellor's Office. When a building is closed, only faculty, staff, and students with specific needs are allowed inside. Environmental and lighting concerns are monitored continually by the Maintenance Department, and they respond to all requests for service dealing with safety or security hazards that are structural or mechanical in nature. All members of the university community are encouraged to report any safety hazards to the Maintenance Department at (812) 348-7237.

### Office of Public Safety

The Office of Public Safety is dedicated to upholding the highest in professional standards while ensuring the safety and security of IUPUC students, faculty, staff, and visitors.

- We are committed to the enforcement of local, state, and federal laws to protect life and property, while also respecting constitutional rights and individual dignity. In addition, we are committed to employing creativity, patience, and persistence in establishing and maintaining positive relationships.
- We perform our responsibilities with an unwavering commitment to integrity and are accountable to those we serve for our decisions and actions.
- We strive to practice empathy, compassion, and sensitivity at all times, recognizing that every individual is valuable and should have the maximum opportunity to reach his or her potential.
- To Contact Public Safety call 812-348-7388 or 812-348 SAFE (7233)

## Veterans Services

Students wishing to use Veterans Affairs (VA) education benefits should notify the School Certifying Official in the Office of Registrar Services, Room 156M, (812) 348-7319. For official VA information about all the different chapters of the GI Bill®, visit the Veterans Affairs site [online](#). A guide for veterans applying for admission to IUPUC may also be helped on the [IUPUC Veterans](#) page.

## University Ombudsman

At Indiana University-Purdue University Columbus (IUPUC), the university ombudsman is a neutral, impartial IUPUC staff member charged with helping to solve problems and resolve disputes. The most important function of the university ombudsman is to provide confidential and informal assistance to student, faculty, and staff who are members of the IUPUC campus community.

The ombudsperson role has a long and honorable tradition as a means of protecting against abuse, bias and other improper treatment or unfairness. Serving as a neutral third party, the ombudsperson is neither an advocate for any individual nor the organization, but rather, an advocate for fairness who acts as a source of information and referral, and aids in answering individual's questions, and assists in the resolution of concerns and critical situations. In considering any given instance or concern, the rights of all parties that might be involved are taken into account.

This office supplements, but does not replace, the university's existing resources for conflict resolution. If you are in need of these services, please contact the University Ombudsman, Sandra Miles, at smiles3@iupuc.edu.

## Scholarships for IUPUC

### Scholarships

Unlike student loans, scholarships are a form of financial assistance that you are not required to repay. IUPUC offers three types of scholarships: [admissions-based](#), [competitive](#), and [donor-funded](#).

In addition to university scholarships, we encourage you to explore those that are funded and awarded by governmental and educational agencies, community foundations, private corporations and businesses, and other organizations. You'll find links to some of these resources here.

### Types of Scholarships

- [Admission Based](#)
- [Donor Funded](#)
- [Community Foundation Scholarships](#)
- [Other Scholarships](#)

## Faculty

### Faculty

#### Administrative Officers

- **Candidate Pending**, Vice Chancellor and Dean
- **Gary Felsten**, Associate Dean, Academic Affairs
- **Joseph Heltzel**, Director, Recruitment and Admissions

- **Paul Burris**, Director, Facility Services
- **Jennifer Chandler**, Director, Scholarships
- **Jane Donald**, Director, Personnel Administration
- **Bill Fields**, Executive Director, University Information Technology Services
- **Denise Jennings**, Executive Director, Enrollment Management & Student Affairs
- **Bryant Lucas**, Lieutenant, Office of Public Safety
- **Sandra Miles**, Director, Student Affairs, and University Ombudsman
- **Tom Sawyer**, Regional CIO
- **Matt Souza**, Special Assistant to the Vice Chancellor and Dean for Strategy
- **Carol Branson**, Director, Communications and Marketing
- **Brenda Vogel**, Director, Development and External Affairs
- **Naomi Cohenour**, Executive Director, Administration and Finance
- **Debra Winikates**, Director, UCOL

#### Division Heads and Program Directors

- **Catherine Brown**, Division Head, Division of Education, and Director, Center for Teaching and Learning
- **Emily Dill**, Executive Director, University Library of Columbus
- **Anna Carmon**, Director, Communication Studies Degree Program
- **Jeffery Hittler**, Interim Director, MBA Program
- **Joan Poulsen**, Director, Undergraduate Psychology Degree Program
- **Beth Sharer**, Division Head, Division of Nursing
- **George Towers**, Division Head, Division of Liberal Arts
- **Frank Wadsworth**, Division Head, Division of Business
- **Anibal Torres Bernal**, Director, Mental Health Counseling Degree Program
- **Vickie Welsh-Huston**, Director, General Studies Degree Program and IUPUC Honors Program
- **Katherine Wills**, Director, English Degree Program

## Courses

### Business Accounting

**BUS-A 437 Advanced Managerial Accounting (3 cr.)**  
P: BUS A325. Objective of course is to provide students with advanced managerial accounting knowledge and skills. Emphasis is on strategic decision making and management control systems. Students will provide case analyses and presentations.

**BUS-A 490 Independent Study in Accounting (1-3 cr.)**  
P: consent of undergraduate program chairperson and instructor. Supervised individual study and research in student's special field of interest. The student will propose the investigation desired and, in conjunction with the instructor, develop the scope of work to be completed. Written report required.

**BUS-A 201 Introduction to Financial Accounting (3 cr.)** P: BUS X100. Provides balanced coverage of the mechanics, measurement theory, and economic context of financial accounting. Strikes a balance between a preparer's and a user's orientation, emphasizing that students must understand both how transactions lead to financial statements (preparer's orientation) as well as how one can infer transactions given a set of financial statements (user's orientation). Relies on current real-world examples taken from the popular business press. The first part of the course introduces students to the financial accounting environment, financial statements, the accounting cycle, and the theoretical framework of accounting measurement. The second part of the course covers the elements of financial statements, emphasizing mechanics, measurement theory, and the economic environment.

**BUS-A 202 Introduction to Managerial Accounting (3 cr.)** P: BUS A201. The course covers the concepts and issues associated with the accounting and the management of business. Particular emphasis is given to understanding the role of accounting in product costing, costing for quality, cost-justifying investment decisions, and performance evaluation and control of human behavior.

**BUS-A 311 Intermediate Accounting I (3 cr.)** P: BUS-A 202. Provides students with a thorough understanding of the theoretical foundations underlying financial reporting, revenue recognition, and the matching of expenses; financial statement presentation; and accounting for assets. The course's primary objective is to give students the tools necessary to understand and execute appropriate accounting procedures. Another goal is to help students understand the process through which accounting standards are determined and to evaluate the outcomes of that process from the perspectives of managers, shareholders, auditors, and others. Students will learn to assess competing accounting theories and methods from multiple perspectives.

**BUS-A 312 Intermediate Accounting II (3 cr.)** P: Bus A311 Provides students with a thorough understanding of accounting for long-term liabilities and debt investment, stockholders' equity, and preparation of cash-flow statements. The course's first objective is to give students the tools necessary to understand and execute appropriate accounting procedures. The course's second objective is to help students understand the process through which accounting standards are determined and to evaluate the outcomes of that process from the perspectives of managers, shareholders, auditors, and others. Students will learn to assess competing accounting theories and methods from multiple perspectives.

**BUS-A 325 Cost Accounting (3 cr.)** P: Bus A202 Conceptual and procedural aspects of management and cost accounting. Product costing, cost control over projects and products, decision making, profit planning, quantitative modeling, activity-based management, and computer applications.

**BUS-A 328 Introduction to Taxation (3 cr.)** P: Bus A202. This course examines the fundamentals of federal income taxation. Primary emphasis is on a basic understanding and awareness of the tax law as it applies to individuals. Includes an overview of the taxation of

corporations, partnerships, and estates and trusts. The course introduces students to tax research and the various sources of tax law, including the Internal Revenue Code, regulations, administrative pronouncements, and case law.

**BUS-A 335 Accounting for Government and Not-For-Profit Entities (3 cr.)** P: BUS-A 311. Financial management and accounting for nonprofit-seeking entities such as municipal and federal governments, schools, and hospitals.

**BUS-A 337 Accounting Information Systems (3 cr.)** P: BUS-A 311 and ECON-E 280. Impact of modern computer systems on analysis and design of accounting information systems. Discussion of tools of systems analysis, computer-based systems, and internal controls and applications. Focus on microcomputer use.

**BUS-A 424 Auditing and Assurance Services (3 cr.)** P: BUS-A 312. This course provides students with an understanding of (1) the auditing environment and professional ethics, (2) audit reports and the conditions under which alternatives are used, (3) basic auditing concepts, (4) audit evidence and documentation, (5) analytical reviews, (6) the audit risk model, (7) review and documentation of internal controls, (8) audits of cycles, (9) statistical sampling, and (10) audit objectives and audit procedures for mechanized systems. Emphasis is on the conceptual development of the subject matter, the nature of professional practice, and the technology of auditing.

### Economics

**BUS-H 310 Health Care in America (3 cr.)** P: BUS-A 202, W 200, ECON-E 202.

This course provides an introduction to the U.S. health care system, providing the student with an overview of its overall structure and functions. A goal of the course is to describe and explain the political, economic and social factors that influence the provision of health care in America, a highly complex industry. The history of health care in the United States will be explored and will be used to frame the variety of roles and functions within the different segments of the health care industry.

**BUS-H 321 Principles of Epidemiology (3 cr.)** P: BUS-H 310.

This course covers basic epidemiology principles, concepts, and procedures useful in the surveillance and investigation of health-related states or events.

Communicable and chronic disease risk factors will be discussed, along with data acquisition, analysis techniques, and current published epidemiological studies.

**BUS-H 341 Legal Aspects of Health Care Administration (3 cr.)** P: BUS-H 310.

This course provides an introduction to the regulatory, legal, and ethical issues related to the U.S. health care industry. Topics include reimbursement issues, utilization review, HIPAA, patient rights, liability and malpractice, long-term regulatory issues, federal, state, and local statutes.

**BUS-H 331 Community Health (3 cr.)** P: BUS-H 310.

Introduction to public health, and services provided to citizens and educators by official and voluntary health agencies.

**BUS-H 431 Health Care Reimbursement (3 cr.)** P: BUS-H 310.

This course covers health insurance products and managed care approaches to the financing and delivery of health care services. Students explore reimbursement and payment methodologies. Students examine forms, processes, practices and the roles of health information professionals. Students discuss concepts in insurance, third-party and prospective payments, and managed care organizations.

**BUS-H 445 Quality Management in Health Care (3 cr.)** P: BUS-H 310.

This course will involve an exploration of the technical, managerial and organizational issues that are important in understanding and implementing quality management systems in health service organizations.

**BUS-H 450 Health System Administration (3 cr.)**

P: BUS-H 321, H 331, and H 341.

The purpose of this course is to emphasize the development and execution of key strategic leadership practices required of successful organizational leaders in health care administration, with recognition of the strengths and abilities of each individual student. The focus of this course is to create opportunities for students to practice their leadership expertise and other acquired skills by promoting an environment that fosters learning from shared experiences and feedback from leaders in the field.

### Economics

**ECON-E 201 Introduction to Microeconomics (3 cr.)**

An analysis of evolution of market structure using the concepts of supply and demand, opportunity cost, and marginal analysis. Applications include a variety of concurrent microeconomic issues.

**ECON-E 202 Introduction to Macroeconomics (3 cr.)**

An introduction to macroeconomics which studies the economy as a whole; the level of output, prices and employment, how they are measured and how they can be changed; money and banking; international trade; and economic growth.

**ECON-E 280 Applied Statistics for Business and**

**Economics I (3 cr.)** P: MATH-M 118 or M119, or MATH 15300 or 16500. Summary measures of central tendency and variability. Basic concepts in probability and important probability distributions. Sampling, sampling distributions, and basic estimation concepts such as confidence interval, estimation, and hypothesis testing.

**ECON-E 281 Applied Statistics for Business and**

**Economics II (3 cr.)** P: ECON-E 280. Balanced coverage of statistical concepts and methods, along with practical advice on their effective application to real-world problems. Topics include simple and multiple linear regression, time-series analysis, statistical process control and decision making.

## Finance

### **BUS-F 490 Independent Study in Finance (1-3 cr.)**

P: consent of undergraduate program chairperson and instructor. Supervised individual study and research in student's special field of interest. The student will propose the investigation desired and, in conjunction with the instructor, develop the scope of work to be completed. Written report required.

**BUS-F 255 Business - Variable Title (1-3 cr.)** Course is designed to assist students in successfully managing their personal finances through the development of skills and competencies that will enable the student to make good financial decisions. Topics include the four categories of money, personal financial statements, money management tools, and understanding credit.

**BUS-F 301 Financial Management (3 cr.)** P: BUS-A 202, W 200, ECON-E 280.

An overview of the essentials of corporate finance needed to compete effectively in an increasingly global environment. Topics include financial statement analysis, long-term planning, time value of money, discounted cash flow, behavioral finance, risk and cost of capital, capital budgeting, and ethics. Provides an introduction to the practice areas of finance and challenges students to develop a curiosity for how tools of finance are used in business and investments, and in life.

**BUS-F 303 Intermediate Investments (3 cr.)** P: BUS F301. Provides a rigorous treatment of the core concepts of investments for finance majors. Covers equity securities, fixed income securities, derivative securities, and international investments. Makes extensive use of spreadsheet modeling to implement financial models. Serves as a foundation for all 400-level finance electives.

**BUS-F 305 Intermediate Corporate Finance (3 cr.)** P: BUS-F 301. Provides a rigorous treatment of the core concepts of corporate finance. Covers capital budgeting, the valuation of firms, capital structure choices and payout policies. Makes extensive use of spreadsheet modeling to implement financial valuation models. Serves as a foundation for all 400-level finance electives.

**BUS-F 420 Equity and Fixed Income Investments (3 cr.)** P: BUS-F301. A detailed examination of the management and valuation of equity and fixed income securities. The analysis of individual securities, the grouping of these securities into portfolios, and the use of derivative securities to modify the return/risk profiles of more traditional stock and bond portfolios will be discussed.

**BUS-F 421 Derivative Securities and Corporate Risk Management (3 cr.)** P: BUS-F 301. This course provides an in-depth examination of the institutional details of the derivative security markets and derivative security valuation. Additionally, speculative and risk management uses of derivatives are studied in detail.

**BUS-F 494 International Finance (3 cr.)** P: BUS-F 301. Covers the international dimension of both investments and corporate finance. Develops strategies for investing internationally, estimating a corporation's exposure to real exchange rate risk, adjusting to client preferences and home currencies, evaluating performance, and hedging risk. Also covers international capital budgeting,

multinational transfer pricing, and international cash management.

### **BUS-F 151 Personal Finances of the College Student (1 cr.)**

Introduction to the basic planning tools and concepts for college-age financial literacy. Emphasis on financial decisions and challenges facing a typical college student. Topics include, careers, goal setting, budgeting, tax planning and credit, including options for financing higher education. Foundation of the Financial Literacy Curriculum.

### **BUS-F 152 Basic Financial Planning and Investment (1 cr.)**

Introduction to the basic planning tools and concepts for financial literacy into adulthood and retirement. Emphasis on analyzing, selecting and managing investments over a lifetime. Topics include, time value of money, financial statements, retirement objectives, and investing in various financial assets. Part of the Financial Literacy Curriculum.

## General Business

**BUS-D 301 The International Business Environment (3 cr.)** P: BUS-W 200, ECON-E 201 and E202. Economic environment for overseas operations. Governmental policies and programs that affect international business. Economic and political philosophies around the world; patterns of government-business relationships.

**BUS-D 302 International Business: Operations of International Enterprises (3 cr.)** P: BUS-D 301. International dimensions of marketing, finance, accounting, taxation, and personnel, with an emphasis on management decisions and implementation. Analytical framework for decision making in a multinational context.

**BUS-J 401 Administrative Policy (3 cr.)** P: BUS-X 390. P or C: Experiential Learning course. Spring/summer grads must take J401 during final semester, fall grads may take in summer or fall of final year. Strategic planning; environmental analysis; internal analysis; policy formulation; organization methods; and executive control. Contemporary case studies are used to develop action-oriented plans affecting long-run consequences of both national and international operations of the firm.

**BUS-X 100 Business Administration: Introduction (3 cr.)** Business administration from the standpoint of the manager of a business firm operating in the contemporary economic, political, and social environment.

**BUS-J 404 Business and Society (3 cr.)** P: BUS-Z 302, senior standing. Major ethical theories are examined in order to provide a basis for analyzing ethical behavior in the business environment. Such issues as economic competition, discriminatory practices, manipulation of power, environmental conservation, and organizational cultures are investigated.

**BUS-X 390 Integrative Experience (3 cr.)** P: BUS-F301, BUS-M301, and BUS-P301. Integrative Experience is a unique learning experience that integrates knowledge and skills from three critical functions of the business enterprise: finance, marketing and operations. Managers of firms and organizations big and small need to understand the interrelated dynamics of all three functions in order to be successful, highly valued managers (and for

their firms to be successful, highly valued enterprises). An integrated business simulation is the primary tool used to analyze, integrate, and synthesize the management of a business in a team environment.

**BUS-X 483 Undergraduate Internship in Business (1-6 cr.)** P: prerequisite course is dependent on category of internship: BUS-A 311 for accounting, BUS-F 301 for finance, BUS-H 310 for health services administration, BUS-M 301 for marketing, BUS-Z 302 for management. Permission required. Professional practice internship focused on one or more business concentration areas. Students must submit internship proposal form to Division office at least three weeks prior to planned start date. To be considered for the current semester, proposal forms must be received by midterm for spring/fall and by end of session 1 for summer. Students receive work experience in cooperating firms or agencies. Comprehensive written reports required.

**BUS-D 101 Introduction to International Relations (3 cr.)** Introduces the practice and study of international relations. Topics covered include history and diverse theoretical perspectives on international relations and basic concepts like anarchy, sovereignty and balance of power. Course will also examine a variety of perspectives from Economics, Film, Literature, Political Science, among others. No prior knowledge is assumed.

**BUS-X 405 Topical Explorations in Business (2-3 cr.)** P: dependent on specific course offering. Specific topic announced as the course is offered. Typically used for Overseas Study Tours.

**BUS-X 497 Undergraduate Research Project in Business (1-3 cr.)** Supervised student research project in one or more business concentration areas. Application is filed through the Division office. Students collaborate with a faculty mentor to define, propose and complete a research project with potential opportunities to exhibit or present their work on campus, at a conference, and/or via publication in a professional business journal. Formal proposal and permission required.

### Management

**BUS-Z 443 Developing Employee Skills (3 cr.)** P: or C: BUS Z440 . Focuses on skills that relate to the acquisition and/or identification of knowledge, skills, and abilities among job applicants or current employees. Students will learn how to identify individuals who currently possess the knowledge, skills, and abilities (KSA) required to be effective members of contemporary organizations and how to identify specific training needs and formulate and implement programs designed to address observed KSA deficiencies.

**BUS-W 200 Business Management (3 cr.)** P: BUS-X 100. Business administration and management from the standpoint of a business firm operating in the contemporary economic, political, and social environment.

**BUS-P 301 Operations Management (3 cr.)** P: BUS-W 200 and ECON-E 281.

A survey course concerned with the production and distribution of goods and services. Topics include: inventory management, demand forecasting, aggregate production planning, materials requirements planning,

shop scheduling, project management, quality control, and layout and process design.

**BUS-X 103 Business Learning Community (1 cr.)** This course is designed to assist students to be successful at the university and to develop skills and competencies that will enable them to perform well in courses offered by the Division of Business.

**BUS-W 430 Organizations and Organizational Change (3 cr.)** P: BUS-Z 302. The objective of this class is to introduce the principles of organization design, the blueprint by which different parts of the organization (e.g., production, marketing, financial, accounting, and MIS systems) fit together to create an effective organization. Organization design provides the means by which strategy and goals are implemented so it is as important to a firm's overall performance as financial performance, operational efficiencies or market share.

**BUS-W 490 Independent Study in Business Administration (1-3 cr.)** P: consent of undergraduate program chairperson and instructor. Supervised individual study and research in student's special field of interest. The student will propose the investigation desired and, in conjunction with the instructor, develop the scope of work to be completed. Comprehensive written report required.

**BUS-Z 302 Managing and Behavior in Organizations (3 cr.)** P: BUS W200. Integration of behavior and organizational theories. Application of concepts and theories toward improving individual, group, and organizational performance. Builds from a behavioral foundation toward an understanding of managerial processes.

**BUS-Z 440 Personnel-Human Resource Management (3 cr.)** P: BUS-Z 302. Nature of human resource development and utilization in American society and organizations, government programs and policies, labor force statistics, organizational personnel departments, personnel planning, forecasting, selection, training, and development. Integration of government and organizational human resource programs.

**BUS-Z 445 Human Resources Selection (3 cr.)** P: or C: Z440 The ability to evaluate applicants and predict their future performance is a critical function in any organization that wishes to have a competitive edge over other firms. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants.

**BUS-P 421 Supply Chain Management (3 cr.)** P: BUS-P 301.

This course focuses on the strategic design of supply chains with a particular focus on understanding customer value. Supply chain strategy examines how companies can use the supply chain to gain a competitive advantage. Students develop the ability to conceptualize, design, and implement supply chains aligned with product, market, and customer characteristics. The course approaches supply chain management from a managerial perspective and introduces concepts in a format useful for management

decision making including using case analysis, team-based learning and business presentations.

**BUS-Z 447 Leadership, Teamwork, and Diversity (3 cr.)** P: BUS-Z 302 In this course, students develop a "toolkit" of leadership behaviors to use in a variety of situations, when those working with and/or for them need to be motivated toward a common good, particularly when that work involves the use of teams made up of diverse individuals.

**BUS-P 330 Project Management (3 cr.)** P: BUS-P 301. This course will introduce the student to the full range of project management topics, concerns, problems, solution methods and decision processes. These areas include: project selection, project organizational structures, negotiation, project planning, project scheduling and resource loading, project budgeting, project monitoring and control project auditing, and project termination.

**BUS-S 302 Management Information Systems (3 cr.)** P: BUS-Z 302.

This course provides a comprehensive overview of information systems (IS) within a business context from information technology (IT) operations to strategy. We will focus on two broad areas; how organizations should manage their IT functions and how IT enables business processes. Some of the topics we will cover include: enterprise architecture, IT management frameworks, technology case analysis, emerging technologies, IT implementation processes, and enterprise systems.

### Marketing

**BUS-M 300 Introduction to Marketing (3 cr.)** P: 26 credit hours. Examination of the market economy and marketing institutions in the United States. Decision making and planning from the manager's point of view; impact of marketing actions from the consumer's point of view. No credit toward a degree in business.

**BUS-M 301 Introduction to Marketing Management (3 cr.)** P: BUS W200 and ENG W231. Marketing planning and decision making examined from firm's and consumer's points of view; marketing concept and its company-wide implications and integration of marketing with other functions. Market structure and behavior and their relationship to marketing strategy and implementation.

**BUS-M 303 Marketing Research (3 cr.)** P: Bus M301 Focuses on the role of research in marketing decision making. Defining research objectives, syndicated and secondary data sources of marketing information, exploratory research methods, survey research design, experimental design, and data analysis.

**BUS-M 405 Consumer Behavior (3 cr.)** P: BUS M301. Description and explanation of consumer behavior. Demographic, socioeconomic, psychographic, attitudinal, and group influences on consumer decision-making. Applications to promotion, product design, distribution, pricing, and segmentation strategies.

**BUS-M 415 Advertising and Promotion Management (3 cr.)** P: BUS M301. Basic advertising and sales-promotion concepts. The design, management, and integration of a firm's promotional strategy. Public

policy aspects and the role of advertising in marketing communications in different cultures.

**BUS-M 419 Retail Management (3 cr.)** P: BUS M301. Major management problems in retail institutions. Treatment of retail/marketing strategy design and problems related to financial requirements, buying, inventory, pricing, promotion, merchandising, physical facilities, location, and personnel.

**BUS-M 426 Sales Management (3 cr.)** P: BUS M301. Emphasizes the activities and problems of field sales management. Includes organizing the sales force, recruiting, training, compensation, motivation, sales techniques, forecasting, territory design, evaluation, and control. Lectures and case studies.

**BUS-M 450 Marketing Strategy (3 cr.)** P: Bus M405, P or C: BUS M303. Ideally taken in the student's last semester. Capstone course for marketing majors. Draws on and integrates courses previously taken. Focuses on decision problems in marketing strategy and policy design, as well as and application of analytical tools for marketing and decision making.

**BUS-M 490 Independent Study in Marketing (1-3 cr.)** P: consent of undergraduate program chairperson and instructor. Supervised individual study and research in student's special field of interest. The student will propose the investigation desired and, in conjunction with the instructor, develop the scope of work to be completed. Written report required.

**BUS-M 401 International Marketing (3 cr.)** P: BUS M301. Covers world markets, their respective consumers, and their political/economic marketing environments. Examines the marketing issues required to meet the product, promotion, price, and distribution demands of a world market. Although the course has a global orientation, issues specific to exporting are discussed.

**BUS-M 345 Introduction to Franchising (3 cr.)** P: BUS-M 301. Course deals with the important aspects of starting and managing a franchise business. Specific attention is placed on the characteristics of the franchisor and franchisee; evaluation of franchising opportunities; legal concerns of franchising; the development of appropriate strategies and the successful planning, implementation and launching of a business.

### Economics

**PSY-G 502 Professional Orientation and Ethics (3 cr.)** This course is a survey of psychological and educational foundations for counseling and guidance, including counseling theories, practices, and organization.

**PSY-G 505 Individual Appraisal: Principles and Procedures (3 cr.)** This course is an analysis of statistical, psychometric, sociometric, and clinical principles crucial to professional interpretation of standardized and informal data regarding individual clients. Current issues/controversies about ethnic, gender, cultural, and individual differences will be examined. Note: Lab fees apply.

**PSY-G 514 Lifespan Development (3 cr.)**

This course is a survey of human development from infancy through old age, emphasizing the life span perspective of development.

**PSY-G 520 Research in Counseling (3 cr.)**

This course explores how research is planned and conducted in mental health counseling. Thus, the instructor will cover research methodology, design, and statistical procedures. Students will critique various peer-reviewed journal articles on design, statistical procedures, data analysis, and conclusions. Students will also acquire the necessary skills to integrate contemporary mental health counseling research into their clinical decision-making process.

**PSY-G 522 Counseling Theories (3 cr.)** P: Psy G502

This course analyzes and evaluates mental health counseling theories while focusing on social/environmental impacts, research, human diversity and gender issues. This course facilitates the student's ability to create necessary and sufficient conditions for therapeutic change.

**PSY-G 524 Practicum in Counseling (3 cr.)** P: PSY-G502, PSY-G522, PSY-G523 & PSY-G575 This course offers experiential training in providing counseling services to clients. It includes intensive supervision and instruction to help students develop basic clinical competencies in preparation for their internship experiences. The goal is to help students develop professionalism and proficiency at conceptualizing cases and counseling techniques. Note: Lab fees apply.

**PSY-G 523 Laboratory in Counseling (3 cr.)** This course provides closely supervised counseling experiences, i.e., analysis of interviews and role-playing, in a laboratory setting.

**PSY-G 552 Career Counseling and Development (2 cr.)** This course covers theories, techniques, and information resources for enhancing vocational development across the lifespan; and facilitating client problem-solving and decision-making related to maintaining balance among work, family, and leisure roles. Students will develop a knowledge base concerning objective and projective methods for exploring and assessing career client interests, skills, and values that inform clients making reasoned career and lifestyle decisions. Current issues/controversies related to ethics, sociocultural factors, and individual differences in career counseling will be examined. Note: Lab fees apply.

**PSY-G 532 Introduction to Group Counseling (3 cr.)** This course introduces students to group counseling. Students will be exposed to a combination of didactic information about groups along with clinical training/skills building that will prepare future group leaders.

**PSY-G 550 Internship in Counseling (3 cr.)** P: PSY G505 & PSY G524 This course expands the experiential training students received in practicum. The course provides a continuing opportunity to apply theory to practice in mental health counseling under direct clinical supervision. Students will engage in a variety of professional activities performed by regularly employed

counseling professionals in the setting. Note: Lab fees apply.

**PSY-G 553 Career Counseling Lab (1 cr.)** P: or C: Psy G552 This course provides the practical application of career counseling theories, techniques, and information resources with clients seeking services from the university and greater community. Under close supervision by faculty and/or staff, students will use objective and projective methods to assess the interests, skills, and values of these clients. Students will relate codes of ethical practice, understanding of sociocultural factors, and knowledge of individual differences to individual career and lifestyle counseling cases.

**PSY-G 563 Foundations of Mental Health Counseling (3 cr.)** This course explores the foundations and contextual dimensions of mental health counseling. Course material will include theoretical underpinnings of mental health counseling, the counselor's role in diagnosis and intervention selection, and the contemporary trends in mental health counseling.

**PSY-G 616 Psychopathology, Psychodiagnostics, and Treatment II (3 cr.)** P: PSY-G615 This course emphasizes the current edition of the Diagnostic and Statistical Manual of Mental Disorders and integrates etiology, assessment (administration, scoring, and interpretation), diagnosis, prevention, and treatment (evidence based practices and adjunctive use of psychopharmacology) of mental disorders. This course is the second course in a 2-semester sequence.

**PSY-G 567 Introduction to Marriage and Family Counseling (3 cr.)** P: PSY-G502, PSY-G522, & PSY-G523 This course analyzes the historical context, theoretical formulations, counseling techniques/strategies, research findings, treatment issues, and ethical/social concerns in couple and family counseling. This course will focus on the foundational principles of couple and family therapy, its traditional theoretical models, and the more contemporary evidence-based approaches.

**PSY-G 575 Multicultural Counseling (3 cr.)** This course evaluates the influence of cultural and diversity factors in counseling theory, research, and practice. The course challenges students to critically examine culture as a multifaceted concept that permeates all levels of human development and experiences. Students will develop skills to evaluate the ways in which their own identities shape their personal and professional lives.

**PSY-G 598 Seminar in Professional Issues (3 cr.)** P: PSY-G502, PSY-G522, PSY-G523, PSY-G524 and PSY-G575 The course provides students with knowledge, skills and experience to thrive in their professional lives. The course will critically evaluate contemporary trends in the field of mental health counseling and analyze professional development from a historical perspective while focusing on social environmental impacts, research, human diversity and gender issues.

**PSY-G 615 Psychopathology, Psychodiagnostics, and Treatment I (3 cr.)** P: PSY-G505, PSY-G524 This course emphasizes the current edition of the Diagnostic and Statistical Manual of Mental Disorders and integrates etiology, assessment (administration, scoring, and interpretation), diagnosis, prevention, and treatment (evidence based practices and adjunctive use of

psychopharmacology) of mental disorders. This course is the first course in a 2-semester sequence.

**PSY-G 622 Advanced Theories of Counseling (3 cr.)**

P: PSY-G524 & PSY-G575 This course reviews the principles of evidence-based practices and the integration of science and practice in counseling. The course assists students in articulating the theoretical approach that directs their work with clients and integrates methods to determine or measure counseling effectiveness. The course reviews counseling practices for diverse populations and/or problems.

**PSY-G 645 Consultation and Organizational**

**Development (3 cr.)** P: PSY-G502, PSY-G522, PSY-G523, & PSY-G524 This course reviews theories, models, and processes of change in human systems and organizations. Special attention is directed to applying theory to practice and to differentiating between human and structural problems and interventions.

**PSY-G 647 Advanced Internship (3 cr.)** P: Completion of 600 hours in PSY-G550 This course expands the training students received in internship (PSY-G550) by providing students with supervised training that focuses and develops competencies in various areas of mental health counseling. This course satisfies the state licensure requirement for an advanced internship for Licensed Mental Health Counselors. Note: Lab fees apply.

**PSY-G 699 Independent Study in Mental Health Counseling (1-3 cr.)** By permission only. This course provides students with an in-depth independent study on a subject mutually agreed upon by the student and instructor. Learning objectives, course activities and assignments are determined by the instructor.

**Education**

**English as a Second Language**

**EDUC-L 441 Bilingual Education: Introduction (3 cr.)**

Introduction to the development of bilingual/ bicultural education in the United States and its antecedents, rationale, and theories. Comparison of existing bilingual/ bicultural programs.

**EDUC-L 442 Methods for Bilingual Teaching (3 cr.)** P: L441. Methods of teaching the content areas in a bilingual setting, including techniques of linguistic analysis.

**EDUC-X 470 Psycholinguistics of Reading (3 cr.)**

P: Admission to the Teacher Education Program Explores the linguistic and cognitive dimensions of language. Discusses relationships among the systems of language and among the various expressions of language. Always includes topics on semantics, grammar, and dialect. (Spring)

**EDUC-L 403 Assessment Literacy for Cultural and Linguistic Diversity (3 cr.)**

Define assessment literacy for working with culturally and linguistically diverse students. Topics include the assessment process, curriculum design, backwards planning, ongoing, traditional, and alternative classroom assessment, high stakes testing, language proficiency testing, and principles of designing useful, meaningful, and equitable classroom assessments for and of learning.

**EDUC-L 436 Methods and Materials for Teaching ESL (3 cr.)** Permission from Division of Education

English as a Second/New Language teachers need to know how to design instruction and prepare relevant and interesting materials. This course aims to enhance participants' understanding and grasp of theoretical principles underlying the development of curricula as well as choice and development of teaching materials for ESL courses. Through readings, discussions, and projects, students will be exposed to, reflect upon, and learn about issues of needs analysis, program/course/syllabus design, and materials development. The course will specifically explore such issues as conducting a needs analysis; determining teaching goals and objectives; and evaluating, selecting, adapting, and developing teaching materials in the context of Standards for Effective Pedagogy (from CREDE—Center for Research on Education, Diversity & Excellence). P: In order to enroll in this course, students must be granted permission from the Division of Education.

**ENG-G 205 INTRO TO THE ENGLISH LANGUAGE**

**(3 cr.)** This course is an introduction to how language, and English in particular, is structured, including soundS (phonetics and phonology), words (morphology), sentences (syntax) and meaning (semantics). Discussions focus on examples from everyday language and the application of these basic concepts to real world contexts, including language teaching and learning. PUL=2

**Exceptional Needs**

**EDUC-K 307 Methods for Teaching Students with**

**Special Needs (3 cr.)** This course prepares future teachers to work with students with diverse abilities in inclusive settings. Participants learn to use learning modalities, varied rates and complexity of instruction, and making use of individual interests and preferences. Additionally, differentiating and/or individualizing instruction for all learners and developing classroom management skills are emphasized.

**EDUC-K 420 Seminar 4: Assistive Technology in Special Education (3 cr.)**

Develops a basic understanding of Assistive Technology and its potential impact on the daily lives of individuals with disabilities. Explores the options available for children and youth as well as the legislation that regulates its use.

**EDUC-K 426 Seminar 5: Assessment and Instruction**

**(3 cr.)** This seminar teaches students how to gain knowledge of formal and informal assessment techniques, how to link assessment to curriculum and instruction, and how to effectively choose, construct, deliver, and evaluate curriculum and instruction to students with diverse learning needs.

**EDUC-K 441 Seminar 6: Transition Across the**

**Lifespan (3 cr.)** This course provides an in-depth discussion of issues and strategies related to transitions from pre-school through elementary, middle, and high school, and into adulthood. Relevant laws, planning, processes, strategies for interagency collaboration, and resources will be highlighted.

**EDUC-K 448 Seminar 1: Individuals and Families in School and Society (3 cr.)**

The purpose of this seminar is to learn the perspectives of individuals with disabilities and their families regarding the impact of disabilities in their daily lives. A life-span approach will be used to discuss issues related to birth and early childhood, school-age

years, and adulthood. Additional topics include labeling, legal issues, person-centered planning, and academic, social/emotional, behavioral, and environmental issues.

**EDUC-K 453 Seminar 2: Classroom Management and Behavior Support (3 cr.)** The purpose of this course is to provide students with basic knowledge and skills for (1) developing and maintaining proactive classroom environments; (2) teaching children social problem-solving and self-control skills; (3) managing and preventing school-based crisis behaviors; and (4) working with parents and other professionals.

**EDUC-K 465 Seminar 3: Collaboration and Service Delivery (3 cr.)** The purposes of this seminar are to explore service delivery options currently available in special education and to assist students in building their collaborative skills, including effective communication and consultation skills.

### Foundations of Education

**EDUC-H 340 Education and American Culture (3 cr.)** The present educational system: its social impact and future implications viewed in historical, philosophical, and sociological perspective.

**EDUC-H 341 American Culture and Education (3 cr.)** An opportunity to participate in a cooperative learning venture, as students investigate the sociological, psychological, historical, and philosophical foundations of American education, relating findings, observations, and experiences at professional development school sites with current practices and the future of education.

### General Education Courses

**EDUC-E 201 Multicultural Education and Global Awareness (3 cr.)**

This course examines educators' and students' responsibility (ies) in a complex and interdependent world. Students will be guided to develop the skills, knowledge, and attitudes needed to live effectively in a world of limited resources, ethnic diversity, and cultural pluralism. Taught as a writing intensive course at IUPUI.

**EDUC-E 449 Trade Books and the Classroom Teacher (3 cr.)** Emphasizes the use of trade books in language and reading in elementary classrooms.

**EDUC-E 490 Research in Elementary Education (1-3 cr.)** B-I Individual research.

**EDUC-F 110 Windows on Education (2-3 cr.)** First year seminar to support incoming freshmen interested in teaching as a career. The course will facilitate students' efforts to navigate university life while making an informed decision regarding career choices. The F110 will serve as the First Year Seminar that may be linked to EDUC F200: Examining Self as a Teacher.

**EDUC-P 254 Educational Psychology for Elementary Teachers (1-4 cr.)**

The application of psychological concepts to school learning and teaching using the perspective of development from childhood through preadolescence. Special attention is devoted to the needs of the handicapped.

**EDUC-F 200 Examining Self as a Teacher (3 cr.)** Designed to help a student make a career decision, better

conceptualize the kind of teacher the student wishes to become, and reconcile any preliminary concerns that may be hampering a personal examination of self as teacher. Students will design a major portion of their work.

**EDUC-Q 200 Introduction to Scientific Inquiry (1-3 cr.)** Provides the elementary education major with background in the science process skills needed to complete required science courses.

**EDUC-F 401 Topical Exploration in Education (0-3 cr.)** Explores various topics of relevance to education, both in the United States and abroad.

**EDUC-L 400 Instructional Issues in Language Education (3 cr.)**

Reviews the principles and current instructional issues related to learning a first or a second language. Besides the general issues of effects of the environment, developmental stages, and basic instructional methodologies, relationships among reading education, English education, and second language education will be explored.

### Graduate

**EDUC-W 505 PROF DEVELOPMENT WORKSHOP (1-6 cr.)** Basic special education principles for graduate students with no previous course work in special education. Students cannot receive credit for both K205 and K505.

### Methods

**EDUC-M 303 Laboratory/Field Experiences: Junior High/Middle School (0-3 cr.)** B-I Laboratory or field experiences at the junior high or middle school level. (May be repeated.) Corequisite with M314, M330, or M336. Grade: S or F.

**EDUC-E 325 Social Studies in the Elementary Schools (3 cr.)** Emphasizes the development of objectives, teaching strategies, and evaluation procedures that facilitate the social learning of young children. Special attention given to concept learning, inquiry, decision making, and value analysis.

**EDUC-E 340 Methods of Teaching Reading I (2-3 cr.)** Describes the methods, materials, and techniques employed in elementary school developmental reading programs.

**EDUC-E 341 Methods of Teaching Reading II (2-3 cr.)** P: E339 and E340. Describes the methods, materials, and techniques employed in diagnosis and corrective instruction in elementary school reading programs.

**EDUC-M 301 Lab/Field Experience (0-3 cr.)** Laboratory or field experience.

**EDUC-E 345 Language Arts and Mathematics for Young Children (4 cr.)** Methods of developing language, cognition, reading and mathematical readiness; mathematical thinking through play, the arts, and directed experiences; design of curriculum and appropriate teaching strategies for young children.

**EDUC-M 304 Laboratory/Field Experience (0-3 cr.)** Laboratory or field experience.

**EDUC-M 305 Laboratory/Field Experience (0-3 cr.)**

Laboratory or field experience.

**EDUC-M 306 Laboratory/Field Experience (0-3 cr.)**

Laboratory or field experience. Grade: S or F.

**EDUC-M 307 Laboratory/Field Experience (0-3 cr.)**

Laboratory or field experience. Grade: S or F.

**EDUC-M 324 Teaching About the Arts (1-3 cr.)**

Introduction to the importance of the arts in elementary school curriculum. Students are given a foundation of methods and materials in art and music that will enable them to integrate the arts into the general curriculum, supplement art lessons given by school art specialists, and encourage student discussion and understanding of art and music in the world today.

**EDUC-W 201 Beginning Technology Skills (1 cr.)**

This course is designed to provide the student with skills and experiences that will allow for effective and appropriate integration of technology into teaching and learning activities. Students will have the opportunity to implement and evaluate a technology-integrated classroom activity in an advanced field experience.

**EDUC-W 301 Integrating Technology into Teaching Part I (1 cr.)**

P: EDUC-W 201. Provides students with skills and experiences that allow for effective and appropriate integration of technology into teaching and learning activities. Focus will be on reviewing current models of effective technology integration, surveying available technology in schools, and developing classroom lessons and activities.

**EDUC-W 401 Integrating Technology into Teaching Part II (1 cr.)**

P: EDUC-W 201 and W 301. Provides students with skills and experiences that allow for effective and appropriate integration of technology into teaching and learning activities. Students will have the opportunity to implement and evaluate a technology-integrated classroom activity in an advanced field experience.

**EDUC-M 300 Teaching in Pluralistic Society (0-3 cr.)**

This course is designed to introduce students to teaching as a profession. Students focus upon the "self as teacher," learning styles, cultural pluralism, and classroom teaching strategies that respond positively to the personal and ethnic diversity of the learner.

**EDUC-E 323 Social Studies and Science for Elementary School I (3 cr.)**

C: EDUC-E 345, EDUC-M 300, EDUC-M 301, EDUC-M 304 This is a hands-on, minds-on inquiry course that integrates Social and Natural Science content and pedagogy for K-2 learners. Candidates will participate in lectures, small and large group works as well as field based experiences with young learners. Assessment will be based on projects designed to demonstrate candidate growth toward the ability to plan, design, deliver, and assess thematic learning experiences. P: In order to enroll in this course, students must be admitted to the Elementary Education program at IUPUC and receive authorization from the Division.

**EDUC-M 403 Laboratory/Field Experience (0-3 cr.)**

This hybrid field/lab experience is designed to provide you with knowledge, skills, and experiences that will allow you effectively and appropriately integrate technology into teaching and learning activities. During this hybrid field/

lab experience, you will review current models of effective technology integration, survey available technologies in the classroom, and develop classroom lessons and activities. You will also have the opportunity to plan, implement, and evaluate a technology-integrated lesson as a part of your field experience.

**EDUC-E 334 Inquiry in Math and Science (3 cr.)**

C: EDUC-E 340, EDUC-M 403, EDUC-M 305, EDUC-M 324, EDUC-W 301.

Methods of developing mathematical and scientific thinking in the elementary classroom. Design of curriculum, appropriate teaching strategies, and formative and summative classroom assessment for grades K-6, with an emphasis on the curriculum in grades 3-6.

**Student Teaching****EDUC-M 425 Student Teaching: Elementary (1-16 cr.)**

Full-time supervised student teaching in grades 1-6 for a minimum of 10 weeks in an elementary school accredited by the state of Indiana or an equivalent approved school out of state. The experience is directed by a qualified supervising teacher and has university-provided supervision. Grade: S or F.

**EDUC-M 470 Practicum (3-8 cr.)**

Instructional experience under the direction of an identified supervising teacher, with university-provided supervision in the endorsement or minor area, and at the level appropriate to the area, and in an accredited school within the state of Indiana unless the integral program includes experience in an approved and accredited out-of-state site. The practicum may be full- or part time, but in every instance the amount of credit granted will be commensurate with the amount of time spent in the instructional setting. Grade: S or F.

**Engineering and Technology****Electrical Engineering****ECE 20400 Introduction to Electrical and Electronic Circuits (4 cr.)**

P: Physics 25100. Class 3. Lab 1. Students will learn basics of electrical and electronic circuits including introduction to analog and digital electronic circuits. Measurement of electrical signals using meters, probes, and oscilloscopes are covered in the laboratory component of the course. Circuits are designed for minimum hardware with emphasis on understanding analog and digital electronics with practical use of digital and analog microchips. Non-ECE majors who complete this course can continue the digital course sequence offered by the ECE department including microprocessor systems and interfacing, and digital signal processing. No credit will be given for ECE majors.

**Mechanical Engineering****ENGR 19600 Introduction to Engineering (3 cr.)**

Class 2, Lab 2. C: MATH 15400 or 15900 or equivalent. An overview of the engineering profession and methodologies of engineering design. Students develop skills using computer-aided design and simulation software for engineering systems. Projects and homework are implemented and tested in a laboratory environment. The course also introduces the students to standard computer application software and university network and software resources.

**ENGR 19700 Introduction to Programming Concepts (3 cr.)** C: MATH 16500. Class 1, Lab 2. Basic concepts and applications of software programming for solving engineering problems. Topics include techniques for developing structured algorithms, data input and output, conditional statements, loops, recursion, functions, arrays, and elementary concepts in mathematical programming. Examples, homework, and applications of programming concepts make extensive use of the C programming language.

**ENGR 19500 FIRST-YEAR ENGINEERING PROJECTS (3 cr.)** Selected topics in general or interdisciplinary engineering.

**ENGR 29700 COMPUTER TOOLS FOR ENGINEERING (- cr.)** C: MATH 16500. Class 1. Introduction to the use of Matlab for solving engineering problems. Topics include computational methods, data input and output, plotting and curvefitting, functions, conditional statements, loops, and introduction to Matlab toolboxes.

**ME 26200 MECHANICAL DESIGN I (3 cr.)** The basic concepts of mechanical design are introduced with emphasis on use of computer-aided design techniques. Applications are chosen from the area of linkage and mechanism design. Lab involves implementation of computer techniques in solving mechanical design problems.

**ME 27000 BASIC MECHANICS 1 (3 cr.)** Fundamental concepts of mechanics, force systems and couples, free body diagrams, and equilibrium of particles and rigid bodies. Distributed forces; centroids and centers of gravity of lines, areas, and volumes. Second moment of area, volumes, and masses. Principal axes and principal moments of inertia. Friction and the laws of dry friction. Application to structures and machine elements, such as bars, beams, trusses, and friction devices.

**ME 27400 BASIC MECHANICS 2 (3 cr.)** Kinematics of particles in rectilinear and curvilinear motion. Kinetics of particles, Newton's second law, energy, and momentum methods. Systems of particles, kinematics and plane motion of rigid bodies, forces and accelerations, energy and momentum methods. Kinetics, equations of motions, energy and momentum methods for rigid bodies in three-dimensional motion. Application to projectiles, gyroscopes, machine elements, and other engineering systems.

**ME 20000 Thermodynamics I (3 cr.)** Class 3. P: PHYS 15200. P or C: MATH 26100. First and second laws, entropy, reversible and irreversible processes, properties of pure substances. Application to engineering problems.

**ME 27200 Mechanics of Materials (4 cr.)** Class 3, Lab 2. P: ME 27000. Analysis of stress and strain; equations of equilibrium and compatibility; stress/strain laws; extension, torsion, and bending of bars; membrane theory of pressure vessels; elastic stability; selected topics. Experiments include testing of mechanical properties and failure analysis.

**ME 31000 Fluid Mechanics (4 cr.)** Class 3, Lab 2. P: ME 20000 and MATH 26600. P or C: ME 27400. Continua, velocity fields, fluid statics, basic conservation laws for systems and control volumes, dimensional analysis. Euler and Bernoulli equations, viscous flows, boundary layers,

flows in channels and around submerged bodies, and one-dimensional gas dynamics.

**ME 33000 Modeling and Analysis of Dynamic Systems (3 cr.)** Class 3. P: ECE 20400 and MATH 26200 P or C:34000. Introduction to dynamic engineering systems; electrical, mechanical, fluid, and thermal components; linear system response; Fourier series and Laplace transform.

**ME 31400 Heat and Mass Transfer (4 cr.)** Class 3, Lab 2. P: ME 31000. Fundamental principles of heat transfer by conduction, convection, and radiation; mass transfer by diffusion and convection. Application to engineering situations.

**ME 34000 Dynamic Systems and Measurements (3 cr.)** Class 2, Lab 2. P or C: ME 33000 and STAT Elective. Modeling and formulation of differential equations for dynamic systems, including mechanical vibratory systems, thermal systems, fluid systems, electrical systems, and instrumentation systems. Analysis of dynamic systems and measuring devices including transient response and frequency response techniques, mechanical systems, transducers, and operational amplifiers. Consideration of readout devices and their responses to constant, transient, and steady-state sinusoidal phenomena. Calibration and data analysis techniques are introduced. Both analog and digital computation are included.

**ME 34400 Introduction to Engineering Materials (3 cr.)** Class 3. P: Junior standing in engineering. Introduction to the structure and properties of engineering materials, including metals, alloys, ceramics, plastics, and composites. Characteristics and processing affecting behavior of materials in service.

**ME 37200 Mechanical Design II (4 cr.)** Class 3, Lab 2. P: ME 26200, 27200, and 27400. Type and dimensional synthesis of mechanisms. Vector loop approach. Numerical methods and graphical techniques. Computer-aided design techniques. Cams and gears. Static and dynamic balancing. Strength design for mechanisms and robotics. Reliability principles.

**ME 40100 Engineering Ethics and Professionalism (1 cr.)** Class 1. P: Senior standing. Some ethical, social, political, legal, and ecological issues that a practicing engineer may encounter. Students may not receive credit for both ECE 40100 and ME 40100.

**ME 40500 Seminar & Fundamentals of Engineering Review (1 cr.)** Class 1. P: ME 34400, 37200, and Senior Standing. P or C: ME 48200. A seminar series on mechanical engineering career options and guidance, professional development and licensing, and preparation for the Fundamentals of Engineering (FE) examination.

**ME 41400 Thermal-Fluid Systems Design (3 cr.)** Class 3. P: ME 26200 and STAT Elective. P or C: ME 31400. Application of basic heat transfer and fluid flow concepts to design of the thermal-fluid systems. Emphasis on design theory and methodology. Design experience in thermal-fluid areas such as piping systems, heat exchangers, HVAC, and energy systems. Design projects are selected from industrial applications and conducted by teams.

**ME 46200 Capstone Design (4 cr.)** Class 3. P: ME 34400 and 37200. P or C: ME 40500, 41400 and 48200.

Concurrent engineering design concept is introduced. Application of the design is emphasized. Design problems from all areas of mechanical engineering are considered.

**ME 48200 Control System Analysis and Design (3 cr.)**

Class 3. P: ME 34000 or equivalent. Classical feedback concepts, root locus, Bode and Nyquist techniques, state-space formulation, stability, design applications. Students may not receive credit for both 48200 and ECE 38200.

**ME 39700 Selected Topics in Mechanical Engineering (0-6 cr.)**

P: Junior Standing and/or Consent of Instructor  
Topics of contemporary importance or of special interest in Mechanical Engineering.

**ME 43000 Power Engineering (3 cr.)**

P: ME20000  
Rankine cycle analysis, fossil-fuel steam generators, energy balances, fans, pumps, cooling towers, steam turbines, availability (second law) analysis of power systems, energy management systems, and rate analysis.

**ME 43300 Principles of Turbomachinery (3 cr.)**

P: ME20000 and ME31000  
Unified treatment of principles underlying fluid mechanic design of hydraulic pumps, turbines, and gas compressors. Similarity and scaling laws. Cavitation. Analysis of radial and axial flow machines. Blade element performance. Radial equilibrium theory. Centrifugal pump design. Axial compressor design.

**ME 47400 Vibration Analysis (3 cr.)**

P: ME 27200, 27400, and 33000  
Introduction to simple vibratory motions, such as undamped and damped free and forced vibrations, vibratory systems with more than one degree of freedom, Coulomb damping, transverse vibration of beams, torsional vibration, critical speed of shafts, and applications.

**Technology**

**TECH 19900 SPECIAL TOPICS IN TECHNOLOGY**

(1-3 cr.) C: MATH 16500. Special topics in Technology; subject matter to be arranged.

**Graduate Business**

**Masters of Business Administration**

**BUCO-A 501 Intro to Financial Accounting (1 cr.)**

[S/F grading approved but has always been graded here]

Develops concepts and procedures essential for the preparation and interpretation of general purpose financial statements directed to users external to the enterprise. Critical analysis of contemporary financial accounting and reporting issues.

**BUCO-A 524 Managing Accounting Information for Decision-Making (3 cr.)**

Provides a user-oriented understanding of how accounting information should be managed to ensure its availability on a timely and relevant basis for decision making. Focus is on cost-benefit analysis for evaluating potential value-added results from planning, organizing, and controlling a firm's accounting information. Group participation and computer support is used extensively.

**BUCO-D 594 Competitive Strategy in Global Industries (3 cr.)**

This capstone course seeks to develop an

understanding of the contemporary challenges and opportunities associated with developing global strategies. In light of recent developments in the global marketplace, old ideas about competitive strategy and implementation have become largely obsolete. Through a study of competitive industry analysis, competitor analysis and cooperative alliance analysis, we will gain a grasp of the basic principles that are necessary in thinking about competing in a global business environment.

**BUCO-F 523 Financial Management (3 cr.)**

Provides a working knowledge of the tools and analytical conventions used in the practice of corporate finance; establishes an understanding of the basic elements of financial theory to be used in application of analytical reasoning to business problems; and explores the interrelationship among corporate policies and decisions. Course work will include weekly problem sets, and use of PC spreadsheets to develop financial models for cases focusing on funds requirement.

**BUCO-F 570 International Financial Markets (3 cr.)**

**P: F 523.** This course examines the international financial markets in which firms and investors operate and discusses how to assess the opportunities and risks of those markets. Topics to be discussed include balance of payments, international arbitrage relationships, exchange rate determination, currency crises, and international asset diversification.

**BUCO-G 511 Microeconomics for Managers (3 cr.)**

Economic decision making in the business firm, the strategic interaction of business firms in industries, the purchasing and consumption behavior of individual consumers and consumers as a group, and the influence of public policy on market outcomes. Development of a fluency with the language of economics and a strong economic intuition, understanding of selected economics-based decision-making tools and the impact and interaction of the structure of an industry on competition, analysis of intra-industry rivalry, and improved understanding of public policy issues. Emphasis on the logical foundations of economic analysis and managerial decision-making. Will promote understanding and application of various quantitative measures.

**BUCO-G 512 Macroeconomics for Managers (1.5 cr.)**

This course develops a framework to analyze the external economic environment and to understand the major factors that cause macroeconomic change. The effects of monetary, fiscal and trade policies in the U.S. will be examined with an awareness of the interdependency between world economies. Emphasis will be placed on integrating the implications of macroeconomic policy to the firm's capital decisions. Will promote the understanding and application of various quantitative measures.

**BUCO-G 595 Country Analysis and International Management (1.5 cr.)**

**P: G512.** More and more business is conducted outside of the United States. To assess opportunity in a foreign country, managers must have tools to forecast a country's political and economic performance. This course employs a case method curriculum that endows students with knowledge on how to measure national performance, identify a nation's economic policy strategy, and explain

the logic of a strategy in terms of cultural and institutional context. Concepts from political economy and economic growth theory are blended to yield general insights that a manager can apply in analysis of any country. Foreign direct investment, economic reform and planning, regulation of market activity, and political risk are specific topics of focus. Countries of study include China, Japan, India, and Russia. Students leave the course with appreciation of different ways to define and achieve national prosperity.

**BUCO-J 501 Developing Strategic Capabilities (3 cr.)**

Offers an introduction to tools for strategic management. Provides an introductory view of the complexities involved in determining long-term strategies. Examines the dynamics of the competitive environment, how the pace and the direction of industry change are influenced by the resources, capabilities and competitive interactions of rival firms.

**BUCO-J 506 Leadership and Ethics (3 cr.)**

Modern businesses operate in an increasingly interdependent and dynamic environment. The modern, large firm is the major institution in most contemporary industrialized societies. Many actions of firms have major impacts on society as a whole, as well as on specific stakeholders. Corporate actions are increasingly subject to media, public and government scrutiny. The nature of the constantly changing relationship between business and its major constituencies is the focus of the course. The ethical, political, economic, social, and technological considerations of various managerial decisions are investigated. The role of ethical leadership and how it relates to corporate purpose and responsibility will be a major theme of this course.

**BUCO-K 501 Intro to Stat Theory in Economics (1 cr.)**

[S/F grading approved but has always been graded here] Fulfills the statistics prerequisite for entering MBA students. A pass-fail, self-paced review covering the proper use and interpretation of essential statistical techniques in business situations. Provides a working knowledge of probability, quality control procedures, and regression analysis, with emphasis on solving problems using Microsoft Excel. This course will use Excel and assumes you have had some exposure to elementary statistics such as means (averages) and histograms. It also assumes you already know the basics of Microsoft Excel: how to select ranges, enter formulas and sort data.

**BUCO-L 512 Law and Ethics in Business (3 cr.)**

The objective is to provide the student of management with that knowledge of the American legal system, its processes, and the substantive law itself by which is necessary to the making of informed and effective business decisions. Because the law develops and evolves in response to changing social, economic, political, and technological forces, and because business decisions often carry long-lasting as well as delayed effects, this course will emphasize the study of legal change. It is hoped that consideration of past legal developments will give prospective managers sufficient insight into the dynamics of this process to enable

them to predict as soundly as possible the future legal environment in which their present decisions will bear fruit.

**BUCO-M 501 Strategic Marketing Management (1.5 cr.)**

An introduction to the process of creating a market-driven organization. Specific topics include marketing strategy, market research and analysis, and the development of products and services, pricing, distribution and promotion. The course employs lecture, classroom discussion, case analyses, and field research projects.

**BUCO-P 501 Operations Management (3 cr.)**

Surveys the management of operations in manufacturing and service firms. Diverse activities determining the size and type of production process, purchasing the appropriate raw materials, planning and scheduling the flow of materials and the nature and content of inventories, assuring product quality, and deciding on the production hardware and how it gets used comprise this function of the company. Managing operations well requires both strategic and tactical skills. The topics considered include process analysis, workforce issues, materials management, quality and productivity, technology, and strategic planning, together with relevant analytical techniques. The course makes considerable use of business cases. Most classes will be spent discussing the cases assigned. For each case, students will be asked to review actual company situations and apply technical and managerial skills to recommend courses of action. Most cases will be taken from manufacturing, but some will be service-oriented. Several of the cases will focus on international companies or issues.

**BUCO-S 555 Information Technology for Managers (3 cr.)**

Focuses on information technology (IT) management issues and applications. Topics include alternative types of applications, methodologies for developing and purchasing systems, managing the technical and social aspects of IT implementation, and using IT to enable new business strategies. Case studies will be used to illustrate IT management principles and current best practices.

**BUCO-W 511 Venture Strategy (3 cr.)**

This course is designed for those individuals interested in creating a new business venture, acquiring an existing business, working in industries that serve the entrepreneur, or students wishing to familiarize themselves with concepts, issues, and techniques of new venture creation and entrepreneurship. There is also a strong focus on entrepreneurship, or innovation within a corporate environment. Because the sources of entrepreneurial and entrepreneurial motivation are often quite diverse, the learning goals and objectives of the students in this course are often similarly diverse. Therefore, the course is designed to offer a broad range of educational experiences, including case analyses, presenting and negotiating a financial deal, and creating a business plan or corporate change initiative.

**BUCO-W 516 Organizational Development and Change (3 cr.)**

Today's business environment forces executives to use every tool at their disposal to create and maintain an effective and adaptable organization. A major source of

effectiveness and adaptability is the way in which the company's efforts are organized its systems, structures, management processes, rewards, and strategies. The primary job of senior management today is to design, build, and operate organizations that function effectively. With these needs in mind, W516 helps students to: (1) understand the basic components of an organization and how they interrelate as a system, (2) learn tools for diagnosing organizational performance problems, and (3) practice applying organization design concepts to solve performance problems.

**BUCO-X 511 Seminar in Management Issues (1.5-3 cr.)**

Variable topics course including prep for success, experiential learning, human resource management, innovation, and professional development.

**BUCO-X 551 Career Management (1.5 cr.)**

This course is designed to provide MBAs with the skills to successfully manage career development and is required to participate in graduate career services. Includes mock consulting situations.

**BUCO-X 574 Special Topics: NFP Team Project (1.5 cr.)**

This course allows MBA students to work in teams addressing strategic level projects in not-for-profit organizations in the region.

**BUCO-Z 511 Human Resource Management (3 cr.)**

Human Resource Management addresses strategies and issues including staffing, negotiations and conflict management, gender and diversity labor/management relations, occupational safety and health, training and development and management of change.

**BUCO-D 595 International Management (3 cr.)**

This course focuses on developing skills in managing international alliances. Alliances, both domestic and international, are increasingly becoming central to a firm's competitive strategy and thus demands executives who can strategically find partners, negotiate strategic alliances, and work with them to create value. The course may also cover a wide range of joint ventures and strategic alliances including purely domestic arrangements.

**BUCO-M 594 Global Marketing (3 cr.)** This course emphasizes principles and practices of marketing in the contemporary global environment. The material covers both US and foreign companies doing business in various countries around the world. Students gain understanding of similarities and differences in the external marketing environment, different types of risks and challenges in doing business internationally, and the implications of all these factors for developing marketing strategies.

**Informatics**

**HIA-M 330 MEDICAL TERMINOLOGY (3 cr.)**

Understanding and use of the language of medicine including build, analyze, define, pronounce, and spell diagnostic terms that relate to the structure of the body systems. [vocabulary standards]

**Liberal Arts**

**American Sign Language**

**ASL-A 131 Intensive Beginning American Sign Language (4 cr.)** First course in the introductory sequence of language courses. Emphasis on developing basic conversational skills as well as awareness of Deaf culture. PUL=1A, 5

**ASL-A 132 Intensive Beginning American Sign Language II (4 cr.)** Second course in the introductory sequence of language courses. Emphasis on developing basic conversational skills as well as awareness of Deaf culture. PUL=1A, 5

**ASL-A 211 Second Year American Sign Language I (3 cr.)** First course in the second year sequence of language courses designed for students who have completed ASL-A 131 and ASL-A 132. Emphasis is on expansion of grammar, syntax, sentence structure, and vocabulary development, as well as continuation of Deaf Culture studies. PUL=1A, 5

**ASL-A 212 Second Year American Sign Language II (3 cr.)**

Second course in the second year sequence of language courses designed for students who have completed A211. Emphasis is on the narrative, receptive, and expressive skill development and continuation of Deaf Culture studies. PUL=1A,5

**Anthropology**

**ANTH-A 103 Human Origins and Prehistory (3 cr.)** A survey of human biological and cultural evolution from early pre-Pleistocene hominids through the development of urbanized state societies, with the goal of better understanding our human heritage. (Not open to students who have taken A303.)

**ANTH-A 104 Introduction to Cultural Anthropology (3 cr.)** A survey of cultural and social processes that influence human behavior, using comparative examples from different ethnic groups around the world, with the goal of better understanding the broad range of human behavioral potentials and those influences that shape the different expressions of these potentials. (Not open to students who have taken A304.)

**ANTH-A 460 Topics in Anthropology: (variable title) (1-3 cr.)** A conceptual examination of selected topics in the field of anthropology. May not be repeated for more than 6 credit hours.

**ANTH-E 320 Indians of North America (3 cr.)** An ethnographic survey of native North American culture areas and ethnic groups.

**ANTH-E 455 Anthropology of Religion (3 cr.)** Critical evaluation of current approaches to the analysis of religious myth, ritual, and symbolism. Problems in understanding religious beliefs of other cultures. Modern development of anthropology of religion.

**ANTH-E 457 Ethnic Identity (3 cr.)** A cross-cultural analysis of the nature of ethnic groups and identity, including the effects of colonialism and nationalism on ethnic groups, stereotyping groups, ethnic symbols and styles, and persistence and change in ethnicity.

**ANTH-E 402 Gender in Cross-Cultural Perspective**

(3 cr.) This course considers the meaning and social implications of gender in human society. Cultural definitions of "male" and "female" gender categories as well as associated behavioral and structural differentiation of gender roles will be analyzed using current anthropological concepts and theories. PUL=2, 5

**ANTH-P 396 The Rise of Civilization (3 cr.)**

Covers the development of complex societies in several regions of the world. The material is approached from an anthropological perspective, with emphasis on archaeological methods of data collection and analysis. Early civilizations in Iraq, India, Egypt, Rome, China, Peru, and Central America will be discussed. PUL=2,5

**Arabic**

**NELC-A 132 Basic Arabic II (5 cr.)** Introductory language course in modern standard Arabic as in contemporary literature, newspapers, and radio. Focus on grammar, reading, script, conversation, elementary composition, and culture. PUL=1A,5

**NELC-A 131 Basic Arabic I (5 cr.)** Introductory language course in modern standard Arabic as in contemporary literature, newspapers, and radio. Focus on grammar, reading, script, conversation, elementary composition, and culture. PUL=1A,5

**Art**

**HER-H 100 Art Appreciation (3 cr.)** An understanding and appreciation of outstanding works of art through analysis of artistic purposes and techniques, and knowledge of historical style and subject matter. Not counted as credit toward the B.F.A. or B.A.E. degree, nor toward the major or minor requirements in art history.

**HER-E 101 Beginning Drawing I (3 cr.)** Introduction to drawing, exploring a wide range of techniques. Study from nature and still-life objects and sketching from the model.

**HER-E 102 Beginning Drawing II (3 cr.)** Introduction to drawing, exploring a wide range of techniques. Study from nature and still-life objects and sketching from the model.

**HER-E 105 Beginning Painting I (3 cr.)** Introduction to the techniques of painting. Aspects of pictorial composition; wide range of media. Painting from still life and live model.

**Communication**

**COMM-C 322 Advanced Interpersonal Communication (3 cr.)** P: C180 or permission of instructor. Covers core components of the study of interpersonal communication: perception, systems, exchange theoretical approaches; methods of research in interpersonal communication; content (topic) areas such as intimate relationships and friendships. Includes applications of interpersonal communication theory/research.

**COMM-C 104 Voice and Diction (3 cr.)** Directed primarily toward the improvement of normal speech patterns, with emphasis on normal production, resonance, and articulation.

**COMM-T 337 History of the Theatre I (3 cr.)** Significant factors in primary periods of theatre history through the Renaissance and the effect on contemporary theatre; emphasis on trends and developments; review of

representative plays of each period to illustrate the theatrical use of dramatic literature.

**COMM-C 325 Interviewing Principles and Practices (3 cr.)** P: COMM-R110 or equivalent.

Emphasizes verbal and nonverbal communication in pre-interview back-ground research preparation, interview schedule design, question construction, and post-interview self-analysis in several interviewing contexts. Course includes significant assignments designed to help the student enhance oral performance competencies.

**COMM-C 180 Introduction to Interpersonal**

**Communication (3 cr.)** The study of human dyadic interaction, including topics such as perception processes, verbal/nonverbal communication, theoretical models of communication, conflict, and interpersonal communication in various relationships. Course covers applications of interpersonal communication theory/research, including communication competence. PUL=5

**COMM-C 223 Business and Professional**

**Communication (3 cr.)** Preparation and presentation of interviews, speeches, and oral reports appropriate to business and professional organizations; group discussion and parliamentary procedure. This is an intermediate skills course with survey characteristics. PUL=1A

**COMM-C 228 Discussion and Group Methods (3 cr.)**

Theory of and practice in effective participation in and leadership of group, committee, conference, and public discussion; application to information-sharing and problem-solving situations.

**COMM-G 100 Introduction to Communication Studies**

**(3 cr.)** Survey course of history, theory, and practice in each of six major areas: rhetoric and public address, theatre arts, interpersonal/ organizational communication, small group dynamics, public communication, and mass media studies. For each of the areas examined, students will apply theory to practice, thereby learning to become more effective communicators. PUL=1A

**COMM-G 300 Independent Study (1-8 cr.)**

Research or practical experience in various departmental areas as selected by the student prior to registration, outlined in consultation with the instructor, and approved by the department. If a practicum experience, it must represent a minimum of 45 clock hours of practical application per credit hour. A student shall take no more than a total of 9 credit hours of G300 and G491. PUL=4

**COMM-G 310 Introduction to Communication**

**Research (3 cr.)** Methodologies and types of data analyses for investigating communication phenomena. Students will acquire knowledge and competencies that will allow them to understand and address the process of communication research and relevant communication research issues. PUL=1B

**COMM-G 391 Seminar (1-3 cr.)** Topic announced in prior semester; oriented to current topics in communication and theatre; readings, projects, and papers as indicated by the topic and instructor. May be repeated for a total of 8 credit hours.

**COMM-M 150 Mass Media and Contemporary Society**

**(3 cr.)** A critical overview of the role of electronic mass media in contemporary society. Provides an introduction

to such issues as industry structure, organization, and economics; regulation, public interest, and media ethics; impact of programming on individuals; media construction of social institutions; media issues in the global village. PUL=2

### **COMM-R 110 Fundamentals of Speech**

**Communication (3 cr.)** Theory and practice of public speaking; training in thought processes necessary to organize speech content for informative and persuasive situations; application of language and delivery skills to specific audiences. A minimum of six speaking situations. PUL=1A

### **COMM-R 309 Great Speakers: American Public**

**Address (3 cr.)** Course introduces students to historical and contemporary public address. Students will study the speechmaking of notable American speakers. The study will include speeches from a wide range of established genres and will include campaign rhetoric, debates, historical celebrations, lectures, legislative speaking, presidential speaking, public meetings, movement, rhetoric, and sermons.

### **COMM-R 320 Advanced Public Communication (3 cr.)**

Development of a marked degree of skill in preparation and delivery of various types of speeches, with emphasis on depth of research, clarity of organization, application of proof, and felicitous style.

**COMM-R 321 Persuasion (3 cr.)** Motivational appeals in influencing behavior; psychological factors in speaker-audience relation-ship; principles and practice of persuasive speaking.

### **COMM-C 380 Advanced Interpersonal Communication (3 cr.)**

The application of communication theory and research to the study of communication in various types of organizations. Explores reciprocal influence between communication and organizational structures and between communication and managerial styles. Discusses communication designs, superior/subordinate communication, conflict, information management, networks, communication vis-a-vis employee motivation, satisfaction, and productivity; and communication effectiveness in organizations.

### **COMM-C 393 Family Communication (3 cr.)**

Theory/research on the role of communication in creating and maintaining marriages and families. Topics include communication and family life cycles, different family forms, family race/ethnicity, power, and conflict. Covers application of family communication theory/research.

### **COMM-C 482 Intercultural Communication (3 cr.)**

Cognitive, affective, and behavioral learning about intercultural and intracultural communication to increase understanding of the centrality of communication in the social, psychological, and environmental aspects of culture.

### **COMM-G 201 Introduction to Communication Theory (3 cr.)**

A survey of theories in the field of human communication. Consideration is given to theories that explain

communication behavior between pairs of people, within groups, in organization, and in societies.

### **COMM-R 227 Argumentation and Debate (3 cr.)**

Analysis, evidence, and argument in logical discourse; study of debate forms; practice in argumentative speaking in class, campus, and intercollegiate debate. PUL=2

### **COMM-R 310 Rhetoric and Public Address (3 cr.)**

Development of theory of oral discourse; the influence of public address; historical and current problems in rhetoric of conflict, in freedom of speech, and in propaganda and persuasion. PUL=5

### **COMM-R 330 Communication Criticism (3 cr.)**

Course will introduce students to criticism as a method of studying persuasive messages in speeches, fiction, mass media, music, political campaigns, art, and other modes of communication in contemporary culture. PUL=5

### **COMM-R 390 Political Communication (3 cr.)**

Provides an opportunity to study, understand, and participate in political communication. Topics covered include the rhetoric of politics, campaign discourse, political advertising, the role of the media and public opinion, the impact of new technology, and the place of interpersonal communication. PUL=5

## **DLA**

### **DLA-L 110 First Year Student Success Seminar (2 cr.)**

The DLA-L110 seminar introduces key information and campus resources you need for academic success. When you take this course, you will have opportunities to make important connections with faculty, staff, and fellow students. The small classroom format will show you how to develop competencies in oral and written expression and introduce you to some of the disciplines in the Division of Liberal Arts. Our goal is to ensure you have plenty of opportunities for open inquiries and dialog through seminar discussions.

### **DLA-L 100 Introduction to Leadership Studies (3 cr.)**

This course introduces students to the essential theories, practices, and research on the process of leadership.

### **DLA-L 400 Leadership Practicum (3 cr.)**

This class is an applied, experiential learning course where students can practice the knowledge gained in other Leadership Studies courses. It serves as a capstone for the minor and requires students to meet periodically while completing a semester-long project.

## **Economics**

### **FILM-C 292 Introduction to Film (3 cr.)**

Introduction to Film (3 cr.) Nature of film technique and film language; analysis of special films; major historical, theoretical, and critical developments in film and film study from the beginning of cinema to the present.

## **English and Literature**

### **English for Academic Purposes**

#### **ENG-G 13 Reading and Writing for Academic**

**Purposes (3 cr.)** This course is designed primarily for graduate ESL students. Its purpose is to develop reading comprehension skills through the use of academic subject area materials and to teach the writing skills necessary to complete academic work. Assignments are completed

using materials from the students' academic disciplines. PUL=1A.

### **ENG-G 10 ESL for Academic Purposes I (4 cr.)**

C: G009. This course introduces and reviews basic English grammatical structures; presents basic reading strategies and vocabulary development; provides practice in pronunciation of English consonant and vowel sounds, stress, rhythm, and intonation; and focuses on functional language use and study skills. PUL=1C

### **ENG-G 11 ESL for Academic Purposes II (4 cr.)**

This course provides practice in and clarification of higher-level grammatical structures and development of academic reading skills. The objective is to help non-native speakers of English develop their academic communication skills, primarily in the comprehension, interpretation, and analysis of texts, and their critical thinking skills, including the ability to analyze and synthesize readings. Students will be provided opportunities to use and practice their grammar and reading skills in written assignments, which include responses to and analyses of readings and journals used as models for academic writing. PUL=1B

### **ENG-G 12 Listening and Speaking for Academic Purposes II (3 cr.)**

This course focuses on developing speaking and listening skills that are essential to academic life, encouraging participation in group discussion, improvement in presentation strategies, and development of questioning and answering skills. It provides community involvement to help students better understand American culture and language use. Reading skills, vocabulary development, oral communication and presentation skills for the academic context are emphasized. PUL=1B

### **ENG-G 20 Communication Skills for Graduate Students and International Teaching Assistants (3 cr.)**

This course for graduate International Teaching Assistants provides instruction on basic teaching strategies and helps students develop the oral language skills necessary to present academic materials in English to a student audience. Pronunciation, listening comprehension, and classroom interaction skills are practiced. Regular conferences focus on individual pronunciation needs. PUL=1C

### **Internship and Capstone**

**ENG-E 450 Capstone Seminar (3 cr.)** This senior capstone integrates student's undergraduate study through writing and reading projects, faculty and student presentations, and creation of capstone portfolios. Students apply linguistic, literary, and rhetorical knowledge in culminating projects and learning portfolios. The course looks back at accomplishments and forward to postgraduation planning. PUL=3; RISE=Research.

**ENG-E 398 Internship in English (3-6 cr.)** P: consent of instructor. A supervised internship in the use of English in a workplace. Apply during semester before desired internship. PUL=3; RISE=Experiential

### **Linguistics**

### **ENG-Z 204 Rhetorical Issues in Grammar and Usage (3 cr.)**

An introduction to English grammar and usage that studies the rhetorical impact of grammatical structures (such as noun phrases, prepositional phrases, and different sentence patterns). This course considers language trends and issues, the role of correctness in discourse communities, and the relations between writing

in context and descriptive and prescriptive grammars and usage guides. PUL=3

**ENG-Z 205 Intro to the English Language (3 cr.)** This course is an introduction to how language, and English in particular, is structured, including sounds (phonetics and phonology), words (morphology), sentences (syntax) and meaning (semantics). Discussions focus on examples from everyday language and the application of these basic concepts to real world contexts, including language teaching and learning. PUL=2

**ENG-Z 206 Introduction to Language Use (3 cr.)** An introduction to how we use language in our lives. This course explores how and why language varies between different groups and places as well as the role of context on language meaning and interpretation. Insights are applied to understanding the impact on literature, film, writing and other disciplines. PUL=4.

### **Literature**

### **ENG-L 378 Studies in Women and Literature (3 cr.)**

British and American authors such as George Eliot or Gertrude Stein; groups of authors such as the Bronte sisters or recent women poets; or genres and modes such as autobiography, film, or criticism. Topics will vary by semester. PUL=5

**ENG-L 115 Literature for Today (3 cr.)** P: W131. Poems, dramas, and narratives pertinent to concerns of our times: e.g., works concerning values of the individual and society, problems of humanism in the modern world, and conflicts of freedom and order. PUL=2.

**ENG-L 431 Topics in Literary Study (3 cr.)** Study of characteristics and development of literary forms or modes (e.g., studies in narrative, studies in romanticism). Topics vary from year to year. May be repeated once for credit. PUL=5; RISE=R

**ENG-L 202 Literary Interpretation (3 cr.)** Close analysis of representative texts (poetry, drama, fiction) designed to develop the art of lively, responsible reading through class discussion and writing of papers. Attention to literary design and critical method. PUL=2.

**ENG-L 203 Introduction to Drama (3 cr.)** Representative significant plays to acquaint students with characteristics of drama as a type of literature. Readings may include plays from several ages and countries. PUL=2.

**ENG-L 204 Introduction to Fiction (3 cr.)** Representative works of fiction; structural technique in the novel, theories and kinds of fiction, and thematic scope of the novel. Readings may include novels and short stories from several ages and countries. PUL=2.

**ENG-L 205 Introduction to Poetry (3 cr.)** Kinds, conventions, and elements of poetry in a selection of poems from several historical periods. PUL=2.

**ENG-L 354 Critical and Historical Study of American Literature III (3 cr.)** Study of modernist and contemporary American writers in various genres, 1914 to the present, including Frost, Stein, Faulkner, O'Connor, Baldwin, Morrison, and others. PUL=2

**ENG-L 207 Women and Literature (3 cr.)** Issues and approaches to critical study of women writers in British and American literature. PUL=5.

**ENG-L 213 Literary Masterpieces I (3 cr.)**

Students in L213 study major western literary works from the ancient world to the Renaissance. This course provides students with an opportunity to become familiar with great works that are foundational for modern Western culture. These ancient works still have an up-to-date impact on our lives since our core beliefs are still built, to a larger extent than is often realized, on a foundation established by these ancient, medieval, and Renaissance classics, including works of Homer, Sophocles, Virgil, Dante, and others. Emphasis will be on making the literature accessible and interesting, relating it to historical events and contexts, and working on important reading and writing skills. PUL=2

**ENG-L 214 Literary Masterpieces II (3 cr.)**

L214 covers major Western literary works from the Renaissance to the twentieth century. Texts are selected from a variety of genres and nations, with an emphasis on works that have been particularly famous and influential. Works by Cervantes, Voltaire, Flaubert, Dostoevsky, Mann, Ibsen, Kafka, and others are typically included. Emphasis will be on making the literature accessible and interesting, relating it to historical events and contexts, and working on important reading and writing skills. Non-English works will be read in English translation. PUL=2

**ENG-L 220 Introduction to Shakespeare (3 cr.)**

Rapid reading of at least a dozen major plays and poems. May not be taken concurrently with L315. PUL=2

**ENG-L 301 Critical and Historical Survey of English Literature I (3 cr.)**

Representative selections with emphasis on major writers from the beginnings to Swift and Pope. PUL=2

**ENG-L 302 Critical and Historical Survey of English Literature II (3 cr.)**

Representative selections with emphasis on major writers from the rise of romanticism to the present. PUL=2

**ENG-L 351 Critical and Historical Study of American Literature I (3 cr.)**

American writers to 1865: Emerson, Hawthorne, Melville, Whitman, and two or three additional major writers. PUL=2

**ENG-L 352 Critical and Historical Study of American Literature II (3 cr.)**

American writers, 1865-1914: Twain, Dickinson, James, and two or three additional major writers.

**ENG-L 373 Interdisciplinary Approaches to English and American Literature (3 cr.)**

P: Consent of instructor  
Social political, and psychological studies in English and American literature. May contain a supervised travel component. Offered on an as-needed basis. Apply during semester before desired travel. Topics will vary by semester.

**ENG-L 379 Ethnic and Minority Literature (3 cr.)**

Analysis of literature by and about immigrants from diverse cultures about groups such as African Americans, Appalachians, Hispanics, Native Americans, Irish, from a historical and thematic perspective. PUL=5

**ENG-L 376 Literature for Adolescents (3 cr.)**

An examination of the nature and scope of adolescent literature. Wide reading of contemporary literature, with

emphasis on the value of selections for secondary school students and appropriate modes of study. PUL=2

**ENG-L 433 Conversations with Shakespeare (3 cr.)**

An interdisciplinary and intertextual study of Shakespeare's work and its influence to the present day. Students will compare Shakespeare texts with latter-day novels, plays, poems, and films that allude to or incorporate some aspect of Shakespeare's art. PUL=4

**ENG-L 382 Fiction of the Non-Western World (3 cr.)**

An in-depth study of selected narratives from the fiction of the non-Western world. Focus and selections vary from year to year. May be repeated once for credit. PUL=5

**Writing****ENG-W 131 Reading, Writing, and Inquiry (3 cr.)**

W131 teaches skills of critical reading, thinking, and writing to help students meaningfully engage artifacts, events, and issues in our world. The course builds students' abilities to read written and cultural texts critically; to analyze those texts in ways that engage both students' own experiences and the perspectives of others; and to write about those texts for a range of audiences and purposes as a means of participating in broader conversations. Assignments emphasize the analysis and synthesis of sources in making and developing claims. PUL=1A

**ENG-W 132 Elementary Composition II (3 cr.)**

P: W131 (with a grade of C or higher). Stresses argumentation and research concurrently, with a secondary emphasis on critical evaluation in both reading and writing. Evaluation is based on portfolios of the student's work.

**ENG-W 231 Professional Writing Skills (3 cr.)**

P: ENG-W 131 with a grade of C or higher.  
Focuses on expository writing for the student whose career requires preparation of reports, proposals, and analytical papers. Emphasis on clear and direct objective writing and on investigation of an original topic written in report form, including a primary research project. Evaluation is based on student projects. PUL=2; RISE=E

**ENG-W 208 Introduction to Poetry Writing (3 cr.)**

W208 offers students an introduction to the craft and practice of poetry writing: how to find subjects for writing; how to create images, similes, and metaphors; how to make rhyme sound natural; how to produce both metered and free-verse poetry. Part of the class will be a workshop in which students learn to revise their poems and those of fellow students. This course can serve as a prerequisite for W303 or W305. This course is recommended for English majors pursuing a concentration in creative writing. PUL=1A.

**ENG-W 303 Writing Poetry (3 cr.)**

P: W206 or W208 or permission of instructor. An intermediate course in the theory and practice of poetry writing with seminar study of relevant materials and criticism of student work in class and conference. PUL=1A; RISE=Experiential Learning.

**ENG-W 302 Screenwriting (3 cr.)**

P: W206 or W207, or permission of instructor. A practical course in basic techniques of writing for film and television. Covers the essentials of dramatic structure, story development,

characterization and theme, scene construction, dialogue, and, briefly, the practicalities of working as a screenwriter today. PUL=1A; RISE=Experiential Learning.

**ENG-W 301 Writing Fiction (3 cr.)** P: W206 or W207 or permission of the instructor. An intermediate course in the theory and practice of fiction writing with seminar study of relevant materials and criticism of student work in class and conference. May be repeated once for credit. PUL=1A; RISE=Experiential Learning.

**ENG-W 206 Introduction to Creative Writing (3 cr.)** An introduction to the techniques and principles of creative writing. Written assignments, independent work, and workshop discussions of the fundamentals of fiction, poetry, and drama. This course may be used as a prerequisite for all 300-level courses in creative writing. PUL=1A.

**ENG-W 140 ELEMENTARY COMPOSITION-HONORS (3 cr.)** Offers an introductory writing course for advanced freshman writers. Requirements, including number and type of assignments, are parallel to W131. W140 offers greater intensity of discussion and response to writing. Evaluation is based on portfolios of the students' work. PUL=1A

**ENG-W 403 Advanced Poetry Writing (3 cr.)** P: ENG-W 303. Study and practice in the writing of poetry. Analysis of examples from contemporary poets accompanies class criticism and discussion. PUL=1A; RISE=Experiential Learning.

**ENG-W 411 Directed Writing (3 cr.)** P: Consent of instructor and department chair. Individual projects determined in consultation with instructor. Credit varies with scope of project. PUL=1A

**ENG-W 207 Introduction to Fiction Writing (3 cr.)** An introduction to the techniques and principles of fiction writing. Written assignments, workshop discussions of student work in progress, seminar study of classic and contemporary examples of the genre. This course may be used as a prerequisite for ENG W301, ENG W302, or ENG W305. This course is recommended for English majors pursuing a concentration in creative writing. PUL=1A

**ENG-W 305 Writing Creative Nonfiction (3 cr.)** P: ENG W206, ENG W207, ENG W208, or permission of the instructor. An intermediate course in the theory and practice of creative nonfiction prose, with seminar study of relevant materials and workshop discussion of student work in progress. PUL=1A; RISE=Experiential Learning

**ENG-W 310 Language and the Study of Writing (3 cr.)** A course about writing using linguistic perspectives. Some of the topics discussed are writing systems and their history, a comparison of speaking and writing, the analysis of texts and their structure, the writing process and its development, and orality and literacy.

**ENG-W 365 Theories and Practices of Editing (3 cr.)** Instruction and practice in the mechanical, stylistic, and substantive editing of English nonfiction prose, from a wide variety of genres and on a wide variety of subjects. PUL=3

**ENG-W 401 Writing Fiction (3 cr.)** P: ENG W301. Study and practice in the writing of fiction. Analysis of examples from contemporary literature accompanies class

criticism and discussion. May be repeated once for credit. PUL=1A; RISE=Experiential Learning.

**ENG-W 270 Argumentative Writing (3 cr.)** P: ENG-W 131 with a grade of C or higher.

Offers instruction and practice in writing argumentative essays about complicated and controversial issues. The course focuses on strategies for identifying issues, assessing claims, locating evidence, deciding on a position, and writing papers with clear assertions and convincing arguments. PUL=2

**ENG-W 210 Literacy and Public Life (3 cr.)** An introduction to the uses of literacy in public and civic discourse, with connections made to theories of writing and professional prospects for writers; serves as the required gateway course for the Concentration in Writing and Literacy and as an exploration of this concentration for other English majors and students considering the possibility of an English major. PUL=4

**ENG-W 260 Film Criticism (3 cr.)**

Viewing and critiquing current films, with emphasis on the quality of production and direction. Contemporary films viewed; papers serve as a basis for discussion during class. Students will be expected to pay for their movie admissions. PUL=1A

**ENG-W 313 The Art of Fact: Writing Nonfiction**

**Prose (3 cr.)** P: At least one 200-level writing course or excellent performance in W131 and/or W132 (contact the instructor if you are unsure of your readiness for this course). Students will read and analyze professional and student work as they prepare to practice the art of fact by combining the tools of a researcher with the craft of a novelist. The final portfolio includes a stylistic analysis of the student's and others' nonfiction works as well as two illustrated nonfiction texts based on the student's primary and secondary research. PUL=4; RISE=-R

**ENG-W 315 Writing for the Web (3 cr.)** Introduces students to new forms of writing (beyond word processing and desktop publishing) made possible by computers--hypertext, electronic mail, and computer conferencing -- and explores what impact these new forms have on literacy skills for writers and readers of such computer-delivered texts. PUL=1A; RISE=S

**ENG-W 400 Issues in Teaching Writing (3 cr.)** Focuses on the content of rhetoric and composition and considers fundamental theoretical and practical issues in the teaching of writing. Reviews rhetorical and compositional principles that influence writing instruction, textbook selection, and curriculum development. PUL=3

**ENG-W 496 Writing Fellows Training Seminar (3 cr.)**

P: ENG-W 131 and permission of instructor. Internship in Academic Resource Center. Focuses on the writing of students using the ARC. Emphasis on questioning, strategies, problem solving, and self-analysis. Apply in spring for fall enrollment. PUL=3; RISE=E

### Folklore

**FOLK-F 341 Chicano Folklore/Folklife/Folk Music**

**(3 cr.)** Chicano Folklore/Folklife/Folk Music (3 cr.) The folk traditions of Mexican Americans as a reflection of the historical experience and cultural identity of this people within the United States. Mexican heritage, Anglo and

black influences, and the blending of these elements into a unique cultural entity. May be repeated once when topics vary.

**FOLK-F 101 Introduction to Folklore (3 cr.)** A view of the main forms and varieties of folklore and folk expression in tales, ballads, gestures, beliefs, games, proverbs, riddles, and traditional arts and crafts. The role of folklore in the life of human beings.

**FOLK-F 364 Children's Folklore/Folklife/Folk Music (3 cr.)** The traditional rhymes, riddles, stories, games, folklife, or music associated with "the culture of childhood." The role these forms play in peer-group activity and in the social and cognitive development of the child. May be repeated once when topics vary.

**FOLK-F 363 Women's Folklore/Folklife/Mus (3 cr.)** This course identifies key issues in women's folklore and examines the ways in which women have been represented in myths, legends, and folktales, past and present. The various ways in which visions of womanhood inform, reflect, and challenge gender roles will also be analyzed. PUL=3

**FOLK-F 354 African American Folklore/Folklife/Folk Music (3 cr.)** African American culture in the United States viewed in terms of history and social change. Folklore, folk music, and oral history as means of illuminating black culture and history. May be repeated once when topics vary. PUL=5

**FOLK-F 356 Chicano Folklore/Folklife/Folk Music (3 cr.)** The folk traditions of Mexican Americans as a reflection of the historical experience and cultural identity of this people within the United States. Mexican heritage, Anglo and black influences, and the blending of these elements into a unique cultural entity. May be repeated once when topics vary. PUL=5

**FOLK-F 360 Indiana Folklore/Folklife/Folk Music (3 cr.)** Survey of folklore, folklife, or folk music of Indiana with particular attention to the persistence into the present of preindustrial culture. Students are encouraged to do fieldwork in the state. May be repeated once when topics vary.

### General Studies

**GNST-G 400 General Studies Senior Capstone Seminar (1-3 cr.)** P: ENG-W 270 or Equiv. and senior status in BGS program. Assessment by each student of his/her Bachelor of General Studies academic program in the light of university requirements and the personal and professional goals for a degree. Development of a plan for life-long learning in the achievement of the student's personal and professional objectives.

### Geography

**GEOG-G 107 Physical Systems of the Environment (3 cr.)** Physical environment as the home of humans, emphasizing the distribution and interaction of environmental variables (landforms, vegetation, soils, weather, and climate).

**GEOG-G 110 Introduction to Human Geography (3 cr.)** An introduction to the principles, concepts, and methods of analysis used in the study of human geographic systems. Examines geographic perspectives on contemporary world

problems such as population growth, globalization of the economy, and human-environmental relations.

### History

**HIST-A 364 History of Black Americans (3 cr.)** A survey of black life in America: the Atlantic slave trade, slavery, Afro-American culture, racism, Civil War and Reconstruction, peonage, segregation, northern migration, urban ghettos, discrimination, Harlem Renaissance, black nationalism, civil rights, black revolt, contemporary setting.

**HIST-K 495 Readings in History (1 cr.)** By arrangement with instructor. Permission of departmental chairperson required.

**HIST-F 444 History of Mexico (3 cr.)** Brief survey of the colonial period, independence movement, and nineteenth century. Emphasis on the intellectual, political, and cultural history of the Mexican Revolution.

**HIST-A 317 American Social History, 1865 to Present (3 cr.)** Development of modern American intellectual and social patterns since the Civil War. Social thought, literature, science, the arts, religion, morals, education.

**HIST-A 301 Colonial and Revolutionary America I (3 cr.)** European background of American history; discovery and exploration of New World by Spain, France, and England. Colonization: motives, causes, types. Social and intellectual developments in English colonies in the seventeenth and eighteenth centuries. Birth of Republic, 1763-89.

**HIST-A 363 Survey of Indiana History (3 cr.)** Examination of Indiana history that focuses on significant persons, topics, and events from the earliest exploration and settlement of the state to the present day.

**HIST-H 105 American History I (3 cr.)** I. Colonial period, Revolution, Confederation and Constitution, national period to 1865. II. 1865 to present. Political history forms framework, with economic, social, cultural, and intellectual history interwoven. Introduction to historical literature, source material, and criticism.

**HIST-H 106 American History II (3 cr.)** I. Colonial period, Revolution, Confederation and Constitution, national period to 1865. II. 1865 to present. Political history forms framework, with economic, social, cultural, and intellectual history interwoven. Introduction to historical literature, source material, and criticism.

**HIST-H 113 History of Western Civilization I (3 cr.)** I. Rise and fall of ancient civilizations; barbarian invasions; rise, flowering, and disruption of medieval church; feudalism, national monarchies. II. Rise of middle class; parliamentary institutions, liberalism, political democracy; industrial revolution, capitalism, and socialist movements; nationalism, imperialism, international rivalries, world wars.

**HIST-H 114 History of Western Civilization II (3 cr.)** I. Rise and fall of ancient civilizations; barbarian invasions; rise, flowering, and disruption of medieval church; feudalism, national monarchies. II. Rise of middle class; parliamentary institutions, liberalism, political democracy; industrial revolution, capitalism, and socialist movements; nationalism, imperialism, international rivalries, world wars.

**HIST-H 425 Topics in History (3 cr.)** Intensive study and analysis of selected historical issues and problems of limited scope. Topics will vary but will ordinarily cut across fields, regions, and periods. May be repeated once for credit.

**HIST-H 207 Modern East Asian Civilization (3 cr.)**

**HIST-A 314 The United States 1917-1945 (3 cr.)**

Political, demographic, economic, and intellectual transformations of 1917-1945; World War I, the twenties, the Great Depression, New Deal, World War II.

**HIST-A 348 Civil War and Reconstruction (3 cr.)** The era of the Civil War and its aftermath. Military, political, economic, and social aspects of the coming of the war, the war years, and the "reconstruction" era following the conflict.

**HIST-B 310 Britain II (3 cr.)** I: Britain before 1688.

Development of Britain and its institutions from Roman times to the Glorious Revolution, with special emphasis on political and constitutional change. II: Britain since 1688. Examines important modern political, economic, social, and cultural developments, including industrialization and imperialism and the emergence of ideologies like liberalism and socialism.

**HIST-B 360 Europe-Napoleon to First World War II (3 cr.)** I: Post-Napoleonic reaction; revitalized revolutionary forces, 1848; reform in England and Russia; bourgeois monarchy and Second Empire in France; unification movements in Italy and Germany; middle-class nationalism, romanticism, and realism. II: Bismarckian and Wilhelmian Germany; Gladstone, Disraeli, and modern Britain; the French Third Republic and the last days of Tsarist Russia; disintegration of the Ottoman Empire; the Austro-Hungarian Empire in decline; European society and culture on the eve of World War I.

**HIST-B 323 History of the Holocaust (3 cr.)**

**HIST-A 346 American Diplomatic History (3 cr.)** I. American diplomacy from 1775 to 1823; diplomacy of American continental expansion to 1898. II. America as a world power. Involvement in Far Eastern affairs after 1898, diplomacy of World Wars I and II, developments to present. PUL=5

**HIST-H 108 Perspectives on the World to 1800 (3 cr.)**

Emergence of civilizations in the Near East, sub-Saharan Africa, pre-Columbian America. Role of revolutions, i.e., geographic, scientific, industrial, social, and political (American and French) in establishment of European hegemony in Asia and the Western Hemisphere. PUL=5

**HIST-H 109 Perspectives on the World since 1800 (3 cr.)**

Rise and fall of European imperial rule in Asia, the Middle East, and Africa. Special focus on impact of World War I, Chinese, Mexican, Russian revolutions. Independence movement in India, World War II, Cold War, new nations in Asia and Africa, struggle for solidarity in Latin America. PUL=5

## Music

**MUS-E 241 Introduction to Music Fundamentals (2 cr.)**

Learn the basics of music reading, rhythm games, singing, keyboard skills, children's songs, and use of classroom instruments. Designed for, but not limited to, elementary

education majors and others interested in using music as a learning tool.

**MUS-Z 393 History of Jazz (3 cr.)**

Jazz was America's first worldwide popular music. This course emphasizes Jazz as a means to better understand the history and culture of America through examining the influences, styles and major performers and composers from Armstrong and Ellington to Coltrane and Marsalis.

**MUS-Z 201 History of Rock 'n' Roll Music (3 cr.)**

Survey of major trends, styles, and genres of rock music of the 1950s and 1960s, focusing on the work of artists and groups who have proved to have the most enduring significance.

**MUS-Z 320 Special Topics in Popular Music (3 cr.)** This is a variable topics class in popular music.

## Philosophy

**PHIL-P 110 Introduction to Philosophy (3 cr.)**

An introduction to the methods and problems of philosophy and to important figures in the history of philosophy. Concerns such topics as the nature of reality, the meaning of life, and the existence of God. Readings from classical and contemporary sources, e.g., Plato, Descartes, Nietzsche, and Sartre.

**PHIL-P 120 Ethics (3 cr.)**

An introductory course in ethics. Typically examines virtues, vices, and character; theories of right and wrong; visions of the good life; and contemporary moral issues.

**PHIL-P 162 Logic (3 cr.)**

A study of the principles of logic. The course covers a variety of traditional topics, selected for their practical value, within formal and informal logic. Among the topics typically covered are fallacies, syllogisms, causal hypotheses, logic diagrams, argument analysis, and truth-functional reasoning.

**PHIL-P 329 Philosophy of Religion (3 cr.)**

Philosophical views regarding such topics as the meaning and purpose of religion, religious experience, religious knowledge, and the existence and nature of God. PUL=2

**PHIL-P 265 Introduction to Symbolic Logic (3 cr.)**

Introduction to Symbolic Logic (3 cr.) A study of the most important and widely applicable parts of modern symbolic logic: propositional logic and predicate logic.

**PHIL-P 394 Feminist Philosophy (3 cr.)**

A study of one or more philosophical topics in feminist thought. Examples: feminist ethics; feminist critiques of science; and feminist perspectives on motherhood, sexuality, and reproductive technology. PUL=5

## Political Science

**POLS-Y 103 Introduction to American Politics (3 cr.)**

Introduction to the nature of government and the dynamics of American politics. Origin and nature of the American federal system and its political party base.

**POLS-Y 213 Introduction to Public Policy (3 cr.)**

Studies the processes and institutions involved in the formation of public policy with particular reference to the United States. The course will identify key policy actors, analyze the process of policy making, and critically assess selected policy issues (such as foreign, defense, economic, welfare, and environmental policy).

**POLS-Y 103 Introduction to American Politics (3 cr.)**

Introduction to the nature of government and the dynamics of American politics. Origin and nature of the American federal system and its political party base. PUL=3

**POLS-Y 101 Introduction to Political Science (3 cr.)**

For any student interested in better understanding the political world in which we live. The course explains some fundamental political concepts such as power, conflict, authority, and governments. It may also include an overview of the major subfields of political science: comparative politics, international relations, political theory, and public policy.

**POLS-Y 360 U.S. Foreign Policy (3 cr.)** Analysis of institutions and processes involved in the formation and implementation of American foreign policy. Emphasis is on post-World War II policies. PUL=3

**POLS-Y 324 Women and Politics (3 cr.)** Women and Politics (3 cr.) Analysis of women in contemporary political systems, domestic or foreign, with emphasis on political rules, participation, and public policy. Normative or empirical examination of how political systems affect women and the impact women have on the system(s).

**Religion**

**REL-R 111 The Bible (3 cr.)** A critical introduction to the major periods, persons, events, and literatures that constitute the Bible; designed to provide general humanities-level instruction on this important text. PUL=5

**REL-R 120 Images of Jesus (3 cr.)** This course is designed to introduce students to the variety of traditions about the figure of Jesus. It will acquaint students with the wide array of images of the Jesus character through a historical analysis of these images portrayed in texts, art, music, film, and TV.

**REL-R 133 Introduction to Religion (3 cr.)** Introduction to the diversity of traditions, values, and histories through which religion interacts with culture. Emphasis on understanding the ways the various dimensions of religion influence people's lives.

**REL-R 173 American Religion (3 cr.)** A consideration of American religion, with particular emphasis on the development of religious diversity and religious freedom in the context of the American social, political, and economic experience.

**REL-R 212 Comparative Religions (3 cr.)** Approaches to the comparison of recurrent themes, religious attitudes, and practices found in selected Eastern and Western traditions.

**REL-R 180 Introduction to Christianity (3 cr.)** Survey of beliefs, rituals, and practices of the Christian community with a focus on the varieties of scriptural interpretation, historical experience, doctrine, and behavior. PUL=5

**REL-R 301 Women and Religion (3 cr.)** Women and Religion (3 cr.) A critical examination of the roles of women in religion, looking at a range of periods and cultures in order to illustrate the patterns that characterize women's participation in religious communities and practices.

**REL-R 354 Buddhism (3 cr.)** Buddhism (3 cr.) Historical survey of Buddhism from its origins in India through

its diffusion throughout Asia in subsequent centuries. Emphasis on practice (ritual, meditation, and ethics) and social grounding (including individual roles and institutional structures) as well as on doctrinal debates.

**Sociology**

**SOC-R 100 Introduction to Sociology (3 cr.)** P: W131 or consent of instructor. Consideration of basic sociological concepts, including some of the substantive concerns and findings of sociology, sources of data, and the nature of the sociological perspective.

**SOC-R 240 Deviance and Social Control (3 cr.)** P: R100 or consent of instructor. An introduction to major sociological theories of deviance and social control. Analyzes empirical work done in such areas as drug use, unconventional sexual behavior, family violence, and mental illness. Explores both "lay" and official responses to deviance, as well as cultural variability in responses to deviance.

**SOC-R 314 Families and Society (3 cr.)** P: R100 or consent of instructor. The family is a major social institution, occupying a central place in people's lives. This course explores formation and dissolution of marriages, partnerships, families; challenges family members face, including communication and childrearing; reasons for and consequences of change in American families; and how family patterns vary across and within social groups.

**SOC-R 315 Political Sociology (3 cr.)** P: R100 or consent of instructor. Analysis of the nature and basis of political power on the macro level—the community, the national, and the international arenas. Study of formal and informal power structures and of the institutionalized and non-institutionalized mechanisms of access to power.

**SOC-R 325 Gender and Society (3 cr.)** P: R100 or consent of instructor. A sociological examination of the roles of women and men in society, analysis of the determinants and consequences of these roles, and assessment of forces likely to bring about future change in these roles. Although focus will be on contemporary American society, cross-cultural variations in gender roles will also be noted.

**SOC-R 327 Sociology of Death and Dying (3 cr.)** P: R100 or the consent of instructor. This course examines inevitable and salient features of the human condition. Historical evaluation of images and attitudes toward death, the medicalization of death, the human consequences of high-tech dying, the role of the family in caring for dying loved ones, the emergence and role of hospices, the social roles of funerals, grief and bereavement, euthanasia and suicide, the worlds of dying children and grieving parents, and genocide are major issues that are addressed. Two of the major themes of the course revolve around the idea that the way we die is a reflection of the way we live; and, that the study of dying and death is an important way of studying and affirming the value of life.

**SOC-R 344 Juvenile Delinquency and Society (3 cr.)** P: R100 or consent of instructor. Legal definition of delinquency, measurement and distribution of delinquency. Causal theories considered for empirical adequacy and policy implications. Procedures for processing juvenile offenders by police, courts, and prisons are examined.

**SOC-R 345 Crime and Society (3 cr.)** P: R100 or consent of instructor. Examination of the creation, selection, and disposition of persons labeled criminal. Emphasis on crime as an expression of group conflict and interest. Critique of academic and popular theories of crime and punishment.

**SOC-R 351 Social Science Research Methods (3 cr.)** P: R100 or consent of instructor and sophomore standing. A survey of methods and techniques used by sociologists and other social scientists for gathering and interpreting information about human social behavior.

**SOC-R 355 Social Theory (3 cr.)** P: R100 or consent of instructor. This course covers several traditions of classical, contemporary, and post-modern social thought (e.g., social Darwinism, conflict theory, functionalism, symbolic interactionism, critical theory, and feminist theory). The social context, construction, and application theories are included.

**SOC-R 381 Social Factors in Health and Illness (3 cr.)** P: R100 or consent of instructor. Examines the social aspects of health and illness, including variations in the social meanings of health and illness, the social epidemiology of disease, and the social dimensions of the illness experience.

**SOC-R 420 Sociology of Education (3 cr.)** P: R100 or consent of instructor. A survey of sociological approaches to the study of education, covering such major topics as education as a social institution, the school in society, the school as a social system, and the sociology of learning.

**SOC-R 461 Race and Ethnic Relations (3 cr.)** P: R100 or consent of instructor. Comparative study of racial, ethnic, and religious relations. Focus on patterns of inclusion and exclusion of minority groups by majority groups. Discussion of theories of intergroup tensions—prejudice and discrimination—and of corresponding approaches to the reduction of tensions.

**SOC-R 494 Internship Program in Sociology (3-6 cr.)** P: R100, 9 credits of sociology with a B (3.0) or higher, junior standing with consent of instructor. This course involves students working in organizations where they apply or gain practical insight into sociological concepts, theories, and knowledge. Students analyze their experiences through work logs, a paper, and regular meetings with the internship director.

**SOC-R 495 Topics in Sociology (3 cr.)** P: variable with topic. Exploration of a topic in sociology not covered by the regular curriculum but of interest to faculty and students in a particular semester. Topics to be announced.

**SOC-R 497 Individual Readings in Sociology (3 cr.)** P: consent of instructor and 9 credit hours of sociology courses with at least a B (3.0) or higher. Investigation of a topic not covered in the regular curriculum that is of special interest to the student and that the student wishes to pursue in greater detail. Normally available only to majors through arrangement with a faculty member.

**SOC-R 385 AIDS and Society (3 cr.)** This course examines the HIV/AIDS epidemic from a sociological perspective. Students will explore how social factors have shaped the course of the epidemic and the experience of HIV disease. The impact of the epidemic on health

care, government, and other social institutions will also be discussed.

**SOC-R 121 Social Problems (3 cr.)** Selected current “problems” of American society are analyzed through the use of basic sociological data and the application of major sociological frameworks. Policy implications are discussed in light of value choices involved in various solutions. PUL=5

**SOC-R 295 Topics in Sociology (3 cr.)** P: R100 or consent of instructor. Exploration of a topic in sociology not covered by the regular curriculum but of interest to faculty and students in a particular semester. Topics to be announced. PUL=5

**SOC-R 312 Sociology of Religion (3 cr.)** P: R100 or consent of instructor. Examination of religion from the sociological perspective. Religious institutions, the dimensions of religious behavior, the measurement of religious behavior, and the relationship of religion to other institutions in society are examined. PUL=5

**SOC-R 320 Sexuality and Society (3 cr.)** P: R100 or consent of instructor. Provides a basic conceptual scheme for dealing with human sexuality in a sociological manner. PUL=5

**SOC-R 321 Women and Health (3 cr.)** P: R100 or consent of instructor. A review of the relationships among cultural values, social structure, disease, and wellness, with special attention focused on the impact of gender role on symptomatology and access to health care. Selected contemporary health problem areas will be examined in depth. Alternative models of health care delivery will be identified and discussed. PUL=5

**SOC-R 329 Urban Sociology (3 cr.)** P: R100 or consent of instructor. The social dynamics of urbanization, urban social structure, and urban ecology. Theories of urban development; the city as a form of social organization; macroprocesses of urbanization both in the United States and other countries. PUL=5

**SOC-R 410 Alcohol, Drugs and Society (3 cr.)** P: R100 or consent of instructor. This is a survey of the use and abuse of alcohol, including extent of use, history of use and abuse, “biology” of alcohol, alcoholism as a problem, legal actions, and treatment strategies. PUL=5

**SOC-R 415 Sociology of Disability (3 cr.)** P: R100 or consent of instructor. An examination of current models of disability and of disability at the interpersonal and societal level. Topics include recent legal, social, and educational changes; the ways in which people with disabilities interact with the nondisabled; the role played by relatives and caregivers; and the image of people with disabilities in film, television, and other media. Recommended for students in nursing, education, physical and occupational therapy, and social work, as well as for the medical sociology minor. Available for graduate credit. PUL=5

**SOC-R 425 Gender and Work (3 cr.)** P: R100 or consent of instructor. This course examines the changing roles that women and men play in paid and unpaid work, and how these roles are socially constructed through socialization practices, social interaction, and actions of social institutions. The interaction of gender, race,

ethnicity, and social class on individuals' involvement in work will also be explored. PUL=5

**SOC-R 485 Sociology of Mental Illness (3 cr.)** P: R100 or consent of instructor. A survey of current problems in psychiatric diagnosis, the social epidemiology of mental illness, institutional and informal caregiving, family burden, homelessness, and the development and impact of current mental health policy. Cross-cultural and historical materials, derived from the work of anthropologists and historians, are used throughout the course. PUL=5

**SOC-R 333 Sports and Society (3 cr.)** This course will examine the importance sports and leisure activities play in society. From local examples such as Indiana motorsports and high school basketball, to international examples such as the Olympics and World Cup, we will examine sports from the perspective of athletes and fans, look at sports as an increasingly important business, and discuss how sports have been a significant agent for social change (including Title Nine, and the integration of major league baseball).

### Spanish

**SPAN-S 118 Beginning Spanish II (3 cr.)** Introductory language sequence of courses designed for students with no prior training in Spanish. Emphasis on developing basic speaking, writing, listening, and reading skills as well as awareness of Hispanic culture. Credit not given for both S117-S118-S119 and S131-S132. PUL=1A,5

**SPAN-S 117 Beginning Spanish I (3 cr.)** Introductory language sequence of courses designed for students with no prior training in Spanish. Emphasis on developing basic speaking, writing, listening, and reading skills as well as awareness of Hispanic culture. Credit not given for both S117-S118-S119 and S131-S132. PUL=1A,5

**SPAN-S 131 First-Year Spanish I (4 cr.)** Introductory language sequence of courses. Emphasis on developing basic speaking, writing, listening, and reading skills as well as awareness of Hispanic cultures. PUL=1A, 5

**SPAN-S 132 First-Year Spanish II (4 cr.)** P: SPAN-S 131 or transfer equivalent, or placement by testing. Continuation introductory language sequence of courses. Emphasis on developing basic speaking, writing, listening, and reading skills as well as awareness of Hispanic cultures. PUL=1A, 5

**SPAN-S 203 Second-Year Spanish I (3 cr.)** P: SPAN-S 132, or 8-10 credit hours of college-level Spanish, or placement by testing. A continuation of training in the four skills: listening, reading, speaking, and writing. PUL=1A, 5

**SPAN-S 204 Second-Year Spanish I (3 cr.)** P: SPAN-S 203, or 8-14 credit hours of college-level Spanish, or placement by testing. Continuation of SPAN-S 203. PUL=1A, 5

### Women's Studies

**WOST-W 105 Introduction to Women's Studies (3 cr.)** This introductory course examines both the relation of women's studies to other disciplines and the multiple ways in which gender experience is understood and currently studied. Beginning with a focus on how inequalities between women and men, as well as among women, have been explained and critiqued, the course considers the impact of social structure and culture on gender. The intersections of gender, race, class, sexual orientation,

and age are investigated in both national and international contexts. PUL=5

**WOST-W 300 Topics in Women's Studies: (variable title) (1-3 cr.)** An interdisciplinary study of selected themes, issues, and methodologies in women's studies. May be repeated for up to 6 credit hours. PUL=5

**WOST-W 499 Senior Colloquium in Women's Studies (1 cr.)** P: Consent of instructor. This is a culminating interdisciplinary course for advanced students who are prepared to present the results of an original major research effort on a topic in women's studies. Participants will be expected to read and evaluate the presentations of other students and participating faculty. PUL=3

### Nursing

#### Bachelor of Science in Nursing (BSN) Courses

**NURS-H 363 The Developing Family and Child (4 cr.)** P: All fifth-semester nursing courses. (Traditional and Accelerated) This course focuses on the needs of individuals and their families who are facing the phenomena of growth and development during the childbearing and child-rearing phases of family development. Factors dealing with preserving, promoting, and restoring the healthy status of family members will be emphasized.

**NURS-S 481 Nursing Management (2 cr.)** P: All seventh-semester nursing courses. C: S482. (Traditional, Accelerated) This course focuses on the development management skills assumed by professional nurses, including delegation of responsibilities, networking, facilitation of groups, conflict resolution, leadership, case management, and collaboration. Concepts addressed include organizational structure, change, managing quality and performance, workplace diversity, budgeting and resource allocation, and delivery systems.

**NURS-S 485 Professional Growth and Empowerment (3 cr.)** (Traditional, Accelerated, and R.N.-B.S.N.) P: All seventh-semester nursing courses. This course focuses on issues related to professional practice, career planning, personal goal setting, and empowerment of self and others. Students will discuss factors related to job performance, performance expectations and evaluation, reality orientation, and commitment to lifelong learning.

**NURS-S 482 Nursing Management: Practicum (3 cr.)** P: All seventh-semester nursing courses. C: C: S481. (Traditional, Accelerated, and R.N.-B.S.N.) Students will have the opportunity to apply professional management skills in a variety of nursing leadership roles.

**NURS-S 484 Research Utilization Seminar (1 cr.)** (Traditional, Accelerated and R.N.-B.S.N.) C: S483. This course focuses on students' abilities to refine their critical/analytical skills in evaluating clinical research for applicability to nursing practice. Students will examine the role of evaluation, action research, and research findings in assuring quality of nursing care and in solving relevant problems arising from clinical practices.

**NURS-B 230 Developmental Issues and Health (4 cr.)** P: Introduction to Psychology; Recommended: Cultural Diversity cluster course. (Required on IUPUI campus.) (Traditional) This course focuses on the theoretical perspectives of growth and development, family theories and family adaptation at different

stages, and usual patterns of aging. Students will make assessments of individuals in various stages of life to identify developmental issues of interest to nursing and the impact of these issues on health phenomena.

**NURS-B 231 Communication Skills for Health-Care Professionals (3 cr.)** (Traditional) Students in this course will focus on basic communication skills essential for working with health-care professionals and clients of various ages. Content includes interpersonal communications and group dynamics. Students will practice communication skills with individuals, within groups, and through electronic media.

**NURS-B 232 Introduction to the Discipline of Nursing: Theory, Practice, Research (3 cr.)** (Traditional and Accelerated) This course focuses on core theoretical concepts of nursing practice: health, wellness, illness, holism, caring, environment, self-care, uniqueness of persons, interpersonal relationships, and decision making. Through integrating theory, research, and practice, this course helps the student understand nursing's unique contributions to meeting societal needs.

**NURS-B 233 Health and Wellness (4 cr.)** (Traditional and Accelerated) P/C: Physiology, Microbiology, or Anatomy. This course focuses on the use of concepts from nursing, nutrition, pharmacology, and biopsychosocial sciences to critically examine the determinants of health, wellness, and illness across the life span. Environmental, sociocultural, and economic factors that influence health-care practices are emphasized. Theories of health, wellness, and illness are related to health-promotion, disease-prevention, and illness-prevention nursing interventions.

**NURS-S 473 A Multi-System Approach to the Health of the Community: Practicum (2 cr.)** P: All sixth-semester nursing courses. C: S472 (Traditional, Accelerated) Students will have the opportunity to apply the concepts of community assessment, program planning, prevention, and epidemiology to implement and evaluate interventions for community-centered care to groups or aggregates. Professional nursing will be practiced in collaboration with diverse groups within a community.

**NURS-S 470 Restorative Health Related to Multi-System Failures (3 cr.)** P: All sixth-semester nursing courses. C: S471 (Traditional and Accelerated) This course focuses on the pathophysiology and nursing care management of clients experiencing multi-system alterations in health status. Correlations among complex system alterations and nursing interventions to maximize health potential are emphasized.

**NURS-S 472 A Multi-System Approach to the Health of the Community (3 cr.)** (Traditional, Accelerated, and R.N.-B.S.N.) P: All sixth-semester nursing courses; C: S473. This course focuses on the complexity and diversity of groups or aggregates within communities and their corresponding health-care needs. Through a community assessment of health trends, demographics, epidemiological data, and social/political/economic issues in local and global communities, the student will be able to determine effective interventions for community-centered care.

**NURS-S 471 Restorative Health Related to Multi-System Failures: Practicum (2 cr.)** (Traditional and

Accelerated) P: All sixth-semester nursing courses; C: S470. Students will apply the nursing process to the care of clients experiencing acute multi-system alterations in health.

**NURS-H 364 The Developing Family and Child: Practicum (3 cr.)** P: All fifth-semester nursing courses. C: H363. (Traditional and Accelerated) Students will have the opportunity to work with childbearing and child-rearing families, including those experiencing alterations in health.

**NURS-H 365 Nursing Research (3 cr.)** P: All fifth-semester nursing courses and H355 or its equivalent. (Traditional, Accelerated) This course focuses on development of students' skills in using the research process to define clinical research problems and to determine the usefulness of research in clinical decisions related to practice. The critique of nursing and nursing-related research studies will be emphasized in identifying applicability to nursing practice.

**NURS-B 248 Science and Technology of Nursing (2 cr.)** P: All third-semester nursing courses; P/C: Physiology, Anatomy, Microbiology. C: B249 (Traditional and Accelerated) This course focuses on the fundamentals of nursing from a theoretical research base. It provides an opportunity for basic-care nursing skills development. Students will be challenged to use critical thinking and problem solving in developing the ability to apply an integrated nursing therapeutics approach for clients experiencing health alterations across the life span.

**NURS-B 249 Science and Technology of Nursing: Practicum (2 cr.)** P: All third-semester nursing courses. C: B248. (Traditional and Accelerated) Students will have the opportunity to demonstrate fundamental nursing skills in the application of nursing care for clients across the life span.

**NURS-H 351 Alterations in Neuro-Psychological Health (3 cr.)** P: All three fourth-semester nursing courses, Anatomy, Physiology, Microbiology; C: H352. (Traditional and Accelerated) This course focuses on individuals and small groups experiencing acute and chronic neuropsychological disorders. Content includes the effect of brain and body disturbances on health functioning. Other content areas are growth and development, stress, mental status, nurse-client relationships, psychopharmacology, and nursing approaches for clients experiencing DSM-IV neuropsychological disorders.

**NURS-H 353 Alterations in Health I (3 cr.)** (Traditional and Accelerated) P: All fourth-semester nursing courses, Anatomy, Physiology, Microbiology; C: H354. This course focuses on the pathophysiology and holistic nursing care management of clients experiencing acute and chronic problems. Students will use critical thinking and problem-solving skills to plan interventions appropriate to health-care needs.

**NURS-H 352 Alterations in Neuro-Psychological Health: Practicum (2 cr.)** P: All fourth-semester nursing courses. C: H351. (Traditional and Accelerated) Students will provide nursing care to individuals and small groups who are experiencing acute and chronic neuropsychological disturbances related to psychiatric disorders. Student experiences will be with individuals

and small groups in supervised settings such as acute, community-based, transitional, and/or home care.

**NURS-H 354 Alterations in Health I: Practicum (2 cr.)** P: All fourth-semester nursing courses. C: H353. (Traditional and Accelerated) Students will apply the science and technology of nursing to perform all independent, dependent, and interdependent care functions. Students will engage clients in a variety of settings to address alterations in health functioning, identify health care needs, and determine the effectiveness of interventions given expected outcomes.

**NURS-H 361 Alterations in Health II (3 cr.)** (Traditional and Accelerated) P: All fifth-semester nursing courses. This course builds on Alterations in Health I, and continues to focus on pathophysiology and holistic nursing care management of the associated needs of clients experiencing acute and chronic health problems.

**NURS-H 362 Alterations in Health II: Practicum (2 cr.)** (Traditional and Accelerated) P: All fifth-semester nursing courses; C: H361. Students will continue to apply the science and technology of nursing to perform all independent, dependent, and interdependent care functions. Students will engage clients in a variety of settings to address alterations in health functioning.

**NURS-B 244 Comprehensive Health Assessment (2 cr.)** P: BIOL-N 261. C: NURS-B 245, BIOL-N 217, BIOL-N 251. Traditional and Accelerated tracks. This course focuses on helping students acquire skills to conduct a comprehensive health assessment, including the physical, psychological, social, functional, and environmental aspects of health. The process of data collection, interpretation, documentation, and dissemination of assessment data will be addressed.

**NURS-B 245 Comprehensive Health Assessment: Practicum (2 cr.)** P: All third-semester courses; C: NURS-B 244. Traditional and Accelerated tracks. Students will have the opportunity to use techniques of interview, observation, percussion, palpation, inspection, and auscultation in assessing clients across the life span in simulated and actual environments.

**NURS-H 356 Clinical Nursing Care 1: Biophysical Processes (5 cr.)** Traditional and Accelerated tracks. This course focuses on providing nursing care for individual and families with acute and chronic biophysical illnesses across the lifespan. Particular attention is focused on developing clinical reasoning and competent nursing practice at a beginning level.

**NURS-Z 480 BSN Portfolio Review for Course Substitution (1-6 cr.)** All tracks. The portfolio review process is available to all undergraduate students who believe that they can meet the learning objectives/competencies required of a specific nursing course within their program of study. The portfolio is a mechanism used to validate the acquisition of knowledge and skills congruent with course expectations and student learning outcomes. The portfolio provides objective evidence that students have acquired necessary content and skills through prior learning and/or practice experiences.

**NURS-S 474 Applied Health-Care Ethics (3 cr.)** C: NURS-H 476. Traditional track. This course is designed to introduce the student to major ethical theory, principles,

and models for the recognition, analysis, and resolution of ethical dilemmas in health-care practice.

**NURS-S 483 Clinical Nursing Practice Capstone (3 cr.)** C: NURS-H 476. Traditional and Accelerated tracks. Students will have the opportunity to demonstrate competencies consistent with program outcomes and to refine their nursing care practice skills. Students will collaborate with faculty and a preceptor in choosing a care setting, planning and organizing a learning experience, and practicing professional nursing in a safe and effective manner.

**NURS-Z 492 Individual Study in Nursing (1-6 cr.)** All tracks. Opportunity for independent study of topics related to nursing practice. Before enrolling in an independent study option, each student must obtain permission from a faculty member who will supervise the study and file appropriate forms prior to registration.

**NURS-B 234 Promoting Healthy Populations (3 cr.)** C: NURS-B 235, B 244, B 245, and B 253. Traditional and Accelerated tracks. This course focuses on preventative health care and health promotion in individuals, families, and communities, considering the influence of culture and lifespan development. Using biophysical, environmental, spiritual, sociocultural and economic determinants of health, students focus on improving health outcomes with individuals, families, and communities.

**NURS-B 235 Promoting Healthy Populations Practicum (2 cr.)** C: NURS-B 234, B 244, B 245, and B 253. Traditional and Accelerated tracks. Students assess individuals, families, and communities providing needed education, preventative services, and support. Students provide individual and population based care in community based settings, giving consideration to the perspective of those being served.

**NURS-B 253 Professionalism in Collaborative Practice (3 cr.)** C: NURS-B 234, B 235, B 244, B 245. Traditional and Accelerated tracks. Students practice communication skills for working with health team members and clients, including self-awareness, interpersonal communication, team skills, and technological communication. Students are introduced to ethics, scope and standards of nursing practice, roles of health team members, components of professional practice, and leadership.

**NURS-B 260 Fundamentals of Nursing Practice (5 cr.)** P: NURS-B 245. C: NURS-B 261. Traditional and Accelerated tracks. This course focuses on the fundamentals of nursing from a theoretical, evidence bases. Students will gain a knowledge base for, and have an opportunity to apply, fundamental nursing concepts, skills, and the nursing process. The evidence based knowledge gained forms a basis for clinical reasoning and decision making as student develop their nursing skills.

**NURS-B 334 Transitional Care of Families and Populations (5 cr.)** P: NURS-B 234. Traditional and Accelerated tracks. Using childbearing families an extensive exemplar, this course focuses on family and community health: community assessment, epidemiology, and intervention with individuals, families, communities and populations. Students address prenatal care, normal and high risk pregnancy and childbirth, newborn care,

genetic counseling, care coordination, complementary care, and environmental health.

**NURS-B 444 Nursing Intensive: Managing Health and Illness across Care Environments (4 cr.)** P: NURS-B 334. Traditional and Accelerated tracks. Students study a focused clinical area of concern for nursing, exploring the ways in which culture, health disparity, transitions between care environments, and health policy impact care for an aggregate, population, or specialty. Immersed in a care environment, students gain relevant clinical knowledge as well as an understanding of the aggregate health concerns.

**NURS-B 261 Pathophysiology and Pharmacology for Nursing Practice (4 cr.)** P: BIOL-N 217. C: NURS-B 260. Traditional and Accelerated tracks. This course provides a foundation in the pathophysiology of key disease processes and pharmacological therapies. Principles of pathophysiology and pharmacology are presented in an integrated manner to provide a basis for study of selected medications that are used to treat or manage diseases with an application to nursing practice.

**NURS-B 453 Interprofessional Collaborative Practice (3 cr.)** P: NURS-B 334. Traditional and Accelerated tracks. Students engage with inter professional colleagues in seminar, simulation, and practice settings, focusing on effective nursing practice and inter professional communication skills including self-awareness, interpersonal communication, conflict resolution, team skills, and technological communication. Students hone leadership, professionalism, and ethical competencies in preparation for practice.

**NURS-H 355 Data Analysis: Practicum and Research (3 cr.)** Traditional track. This course introduces nursing and other health sciences students to basic concepts and techniques of data analysis needed in professional health care practice. Principles of measurement, data summarization, and univariate and bivariate statistics are examined. Differences in types of qualitative data and methods by which these types of data can be interpreted are also explored. Emphasis is placed on the application of fundamental concepts to real world situation in client care.

**NURS-H 360 Clinical Nursing Care 2: Interactive Processes (5 cr.)** P: NURS-H 356. Traditional and Accelerated tracks. This course focuses on nursing care management of individuals and families experiencing acute and chronic health problems related to interaction with the environment and others: sensory, motor, cognitive, affective, and interpersonal processes. Using a holistic approach, this course addresses health problems occurring across the lifespan.

**NURS-H 371 Clinical Care 3: Adaptive Processes (5 cr.)** P: NURS-H 356, H 360. Traditional and Accelerated tracks. The primary focus is on the nursing care and management of individuals and families experiencing acute and chronic health problems using an adaptive and holistic life span approach. Particular attention is focused on developing clinical reasoning and competent nursing practice at an Intermediate level.

**NURS-H 476 Clinical Nursing Care 4: Complex Processes (5 cr.)** P: NURS-H 371. Traditional and

Accelerated tracks. The primary focus is on the nursing care management of individuals and families experiencing complex and significant illnesses across the lifespan. Particular attention is focused on developing clinical reasoning and competent nursing practice at an advanced level.

**NURS-L 230 Health Care Delivery Systems (3 cr.)** Traditional and Accelerated tracks. Students examine health care delivery systems, leadership, health policy, regulation, and economics. Students explore quality practices of health care organizations. Students analyze the impact of Informatics on health care and nursing including the electronic health record, information technology in healthcare, and information literacy.

**NURS-L 430 Leadership in Health Care Delivery (5 cr.)** C: NURS-H 476. Traditional and Accelerated tracks. This course focuses on development of effective leadership skills relevant in health care systems. Students examine health policy, study information management, and employ processes that result in exceptional organizational outcomes. Students use healthcare data and research evidence in quality improvement and change initiatives.

**NURS-R 375 Nursing Research and Evidence-Based Practice (3 cr.)** P: NURS-H 355. Traditional track. This course focuses on nursing research and evidence-based practice. Students develop skills in retrieving and appraising literature relevant to clinical problems, understanding the research process, and critiquing evidence from research publications and other sources to inform evidence-based nursing practice.

**NURS-S 488 Synthesis for Professional Nursing Practice (2 cr.)** C: NURS-S 483. Traditional and Accelerated tracks. Students integrate knowledge and skills acquired throughout the program: critical thinking, information technology, cultural competence, care coordination, leadership, collaboration, and communication skills. Students demonstrate competence in evidence-based practice and quality and safety initiatives, as achieved in a complex and changing health care environment. Students begin the transition to professional practice.

### Pre-Nursing

**NURS-A 100 Nursing: Drug Dosage Calculation (3 cr.)** Provides a review of basic mathematics and presents a method of solving problems involving drug dosages. Course is open to those interested in nursing.

**NURS-B 104 Power Up: Strategies for Academic Success (3 cr.)** This first-year course for students who have declared nursing as a major focuses on assisting students in gaining essential skills for academic success and in developing the ability to make use of university resources. Topics will include time management, stress management, critical thinking, development of networks of support, communication skills, learning styles, and academic responsibility. Teaching and learning strategies will incorporate campus technology and library resources as tools for completion of course requirements.

**NURS-B 215 Nutrition for Health Care Professionals (3 cr.)** Emphasis on nutritional needs and eating habits throughout the lifecycle. Discusses the classification, functions, and food sources of nutrients; the components

of a balanced diet; the process by which the body utilizes food; and nutritional concerns of various cultures.

### **RN to BSN**

**NURS-B 444 Nursing Intensive: Managing Health and Illness across Care Environments (4 cr.)** P: NURS-B 334 Students study a focused clinical area of concern for nursing, exploring the ways in which culture, health disparity, transitions between care environments, and health policy impact care for an aggregate, population, or specialty. Immersed in a care environment, students gain relevant clinical knowledge as well as an understanding of the aggregate health concerns.

**NURS-B 253 Professionalism in Collaborative Practice (3 cr.)** C: NURS-B 234, B 235, B 244, B 245 Students practice communication skills for working with health team members and clients, including self-awareness, interpersonal communication, team skills, and technological communication. Students are introduced to ethics, scope and standards of nursing practice, roles of health team members, components of professional practice, and leadership.

**NURS-B 334 Transitional Care of Families and Populations (5 cr.)** P: NURS-B 234 Using childbearing families an extensive exemplar, this course focuses on family and community health: community assessment, epidemiology, and intervention with individuals, families, communities and populations. Students address prenatal care, normal and high risk pregnancy and childbirth, newborn care, genetic counseling, care coordination, complementary care, and environmental health.

**NURS-B 261 Pathophysiology and Pharmacology for Nursing Practice (4 cr.)** P: Physiology C: NURS-B 260 or NURS-B 248 and B 249 This course provides a foundation in the pathophysiology of key disease processes and pharmacological therapies. Principles of pathophysiology and pharmacology are presented in an integrated manner to provide a basis for study of selected medications that are used to treat or manage diseases with an application to nursing practice.

**NURS-S 488 Synthesis for Professional Nursing Practice (2 cr.)** P: Placement in senior year final semester Students integrate knowledge and skills acquired throughout the program: critical thinking, information technology, cultural competence, care coordination, leadership, collaboration, and communication skills. Students demonstrate competence in evidence-based practice and quality and safety initiatives, as achieved in a complex and changing health care environment. Students begin the transition to professional practice.

**NURS-H 360 Clinical Nursing Care 2: Interactive Processes (5 cr.)** P: NURS-H 356 This course focuses on nursing care management of individuals and families experiencing acute and chronic health problems related to interaction with the environment and others: sensory, motor, cognitive, affective, and interpersonal processes. Using a holistic approach, this course addresses health problems occurring across the lifespan.

**NURS-B 234 Promoting Healthy Populations (3 cr.)** C: NURS-B 235, B 244, B 245, and B 253 This course focuses on preventative health care and health promotion in individuals, families, and communities, considering

the influence of culture and lifespan development. Using biophysical, environmental, spiritual, sociocultural and economic determinants of health, students focus on improving health outcomes with individuals, families, and communities.

**NURS-B 260 Fundamentals of Nursing Practice (5 cr.)** P: NURS B 245 C: NURS B 261 This course focuses on the fundamentals of nursing from a theoretical, evidence bases. Students will gain a knowledge base for, and have an opportunity to apply, fundamental nursing concepts, skills, and the nursing process. The evidence based knowledge gained forms a basis for clinical reasoning and decision making as student develop their nursing skills.

**NURS-L 430 Leadership in Health Care Delivery (5 cr.)** P: Placement in senior year of nursing program This course focuses on development of effective leadership skills relevant in health care systems. Students examine health policy, study information management, and employ processes that result in exceptional organizational outcomes. Students use healthcare data and research evidence in quality improvement and change initiatives.

**NURS-R 375 Nursing Research and Evidence-Based Practice Leadership in Health Care Delivery (3 cr.)** P: or c: NURS H355 or alternate undergraduate statistics course This course focuses on nursing research and evidence-based practice. Students develop skills in retrieving and appraising literature relevant to clinical problems, understanding the research process, and critiquing evidence from research publications and other sources to inform evidence-based nursing practice.

**NURS-B 235 Promoting Healthy Populations Practicum (2 cr.)** C: NURS-B 234, B 244, B 245, and B 253 Students assess individuals, families, and communities providing needed education, preventative services, and support. Students provide individual and population based care in community based settings, giving consideration to the perspective of those being served.

**NURS-H 356 Clinical Nursing Care 1: Biophysical Processes (5 cr.)**

This course focuses on providing nursing care for individual and families with acute and chronic biophysical illnesses across the lifespan. Particular attention is focused on developing clinical reasoning and competent nursing practice at a beginning level.

**NURS-H 476 Clinical Nursing Care 4: Complex Processes (5 cr.)** P: NURS-H 371 The primary focus is on the nursing care management of individuals and families experiencing complex and significant illnesses across the lifespan. Particular attention is focused on developing clinical reasoning and competent nursing practice at an advanced level.

**NURS-L 230 Health Care Delivery Systems (3 cr.)** Students examine health care delivery systems, leadership, health policy, regulation, and economics. Students explore quality practices of health care organizations. Students analyze the impact of Informatics on health care and nursing including the electronic health record, information technology in healthcare, and information literacy.

**NURS-B 331 Transition to BSN Practice (3 cr.)** Students in this course will focus on basic communication skills

essential for working with health-care professionals and clients of various ages. Content includes interpersonal communications and group dynamics. Students will practice communication skills with individuals, within groups, and through electronic media.

**NURS-B 304 Professional Nursing Seminar I: Health Policy (3 cr.)** This course focuses on core theoretical concepts of professional nursing practice, including health, wellness, illness, self-care and caring, disease prevention, and health promotion. Students will be expected to explore theoretical premises and research related to the unique wellness perspectives and health beliefs of people across the life span. Students will learn to develop care outcomes consistent with maximizing individual potentials for wellness. Students will complete a needs assessment as part of the practicum experience.

**NURS-B 404 Informatics (3 cr.)** This course focuses on the application of nursing theory and research findings in restoring and maintaining individual and family functioning for those dealing with multi-system alterations. Students will explore the ethical, legal, and moral implications of treatment options and identify tactics to maintain nursing effectiveness in their facilitation of individuals and families through the health-care system. Students will complete a scholarly analysis as part of their practicum experience.

**NURS-H 365 Nursing Research (3 cr.)** Accelerated and RN-BSN tracks. This course focuses on development of students' skills in using the research process to define clinical research problems and to determine the usefulness of research in clinical decisions related to practice. The critique of nursing and nursing related research studies will be emphasized in identifying applicability to nursing practice.

**NURS-S 474 Applied Health-Care Ethics (3 cr.)** Accelerated and RN-BSN tracks. This course is designed to introduce the student to major ethical theory, principles, and models for the recognition, analysis, and resolution of ethical dilemmas in health-care practice.

**NURS-R 470 Clinical Nursing Practice Capstone (3 cr.)** Note: this course must be taken in the final term for RN to BSN students. This course allows students to synthesize knowledge and skills learned in the baccalaureate program and to demonstrate competencies consistent with program outcomes and to refine their nursing practice skills. Students will plan and organize learning experiences, design a project, and practice professional nursing in a safe and effective manner.

**NURS-S 475 COMMUNITY HEALTH: RNBSN (3 cr.)** Basic epidemiological principles and community health nursing models are applied in collaboration with diverse groups. Disease prevention strategies are applied to individuals and populations to promote health. Students apply the concepts of community assessment, disease prevention, and health promotion to plan, implement, and evaluate interventions for populations in the community.

**NURS-S 487 NURSING MANAGEMENT (3 cr.)** This course focuses on development of management skills assumed by professional nurses, including delegation of responsibilities, networking, and facilitation of groups, conflict resolution, leadership, case management, and collaboration. Concepts addressed include organizational structure, delivery systems, change, managing quality and

performance, budgeting and resource allocation, staffing, scheduling, evaluation and career development.

**NURS-H 355 Data Analysis in Clinical Practice and Health-Care Research (3 cr.)** This course introduces nursing and other health sciences students to the basic concepts and techniques of data analysis needed in professional health-care practice. Principles of measurement, data summarization, and univariate and bivariate statistics are examined. Differences in types of qualitative data and methods by which these types of data can be interpreted are also explored. Emphasis is placed on the application of fundamental concepts to real-world situations in client care.

#### **RN to BSN Practice-Focused**

**NURS-B 344 Comprehensive Health Assessment (3 cr.)** This course focuses on helping students acquire skills to conduct a comprehensive health assessment, including the physical, psychological, social, functional, and environmental aspects of health. The process of data collection, interpretation, documentation, and dissemination of assessment data will be addressed.

**NURS-K 492 Nursing Elective (3 cr.)** Many nursing elective courses are offered under this number. These elective offerings vary from year to year depending on student interest and available resources. Students are kept informed of elective offerings both through informational forums and through listings in the online course offerings. Variable Titles include: Surgical Care, Critical Care, Spirituality in Nursing, Psychiatric Nursing, and Emotional Intelligence.

**NURS-S 485 Professional Growth and Empowerment (3 cr.)** This course focuses on issues related to professional practice, career planning, personal goal setting, and empowerment of self and others. Students will discuss factors related to job performance, performance expectations and evaluation, reality orientation, and commitment to lifelong learning.

**NURS-B 403 Gerontological Nursing (3 cr.)** This course promotes a holistic approach to persons in the later years of life. Death and dying, legal and ethical issues, family care giving, and future challenges will be discussed in the context of best practices as outlined by the John A Hartford Foundation: Institute for Geriatric Nursing.

**NURS-Z 490 Clinical Experience in Nursing (1-6 cr.)** Opportunity for independent study of clinical experience related to nursing practice. Before enrolling in an independent study option, each student must obtain permission from a faculty member who will supervise the study and file appropriate forms prior to registration. Planned and supervised clinical experiences will be arranged in the area of the student's major interest.

**NURS-K 301 Complementary Health Therapies (3 cr.)** This course will serve as an introduction to a variety of complementary therapies, including healing touch, guided imagery, hypnosis, acupuncture, aromatherapy, reflexology, and massage. The class will critically examine each therapy through assigned readings, literature reviews, presentations, guest lecturers, and optional experiential activities.

**NURS-Z 480 Portfolio Review for Course Substitution (1-6 cr.)** Permission of the instructor. The portfolio review

process is available to all undergraduate students who believe that they can meet the learning objectives/competencies required of a specific nursing course within their program of study. The portfolio is a mechanism used to validate the acquisition of knowledge and skills congruent with course expectations and student learning outcomes. The portfolio provides objective evidence that students have acquired necessary skills.

**NURS-K 305 New Innovations in Health and Health Care (3 cr.)** This course explores emergent trends in health and health care, including technological advances in health care, developing approaches to care based on new knowledge and/ or research findings, and trends in health care delivery in a themed, survey or independent study format.

**NURS-P 345 Pharmacology (3 cr.)** This course focuses on basic principles of pharmacology. It includes the pharmacologic properties of major drug classes and individual drugs, with an emphasis on the clinical application of drug therapy through the nursing process.

**NURS-K 499 Genetics and Genomics (3 cr.)** This course introduces a basic knowledge of genetics in health care, including genetic variation and inheritance; ethical, legal, and social issues in genetic health care; genetic therapeutics; nursing roles; genetic basis of selected alterations to health across the life span; and cultural considerations in genetic health care are all considered.

**NURS-K 434 Global Health Issues in Nursing (3 cr.)** This course focuses on global health issues, the conditions that contribute to global health disparities, and nursing interventions. Conceptual models and health equity concepts, evidence-based practice, and health care delivery systems are analyzed to explore strategies for addressing global health issues. Students investigate issues and advocate for health justice.

**NURS-K 304 Nursing Specialty Elective (3 cr.)** This course allows the RN-BSN student to apply nationally recognized specialty nursing knowledge and skills to the BSN degree, through authentication for course credit. National specialty standards will be used to determine eligibility for course credit.

**NURS-B 215 Nutrition for Health Care Professionals (3 cr.)** Emphasis on nutritional needs and eating habits throughout the lifecycle. Discusses the classification, functions, and food sources of nutrients; the components of a balanced diet; the process by which the body utilizes food; and nutritional concerns of various cultures.

### Other Courses Informatics

**NEWM-N 240 Introduction to Digital Video (3 cr.)** P: N101. An introductory course covering video production techniques for digital media. The technology (hardware and software) along with techniques will be taught through lecture and projects. All phases of video production will be addressed, from pre-production through production to post-production with a focus on the digital media aspects.

**NEWM-N 201 Design Issues in Digital Media (3 cr.)** Exploration of the traditional principles of visual design, as expressed in digital design tools and applied to digital media. Topics include visual literacy, fundamental design

elements and design principles, and their expression in various tools for digital design. Hands-on practice with applying design principles in several projects.

**NEWM-N 110 Visualizing Information (3 cr.)** An introductory course for new media students using traditional and digital media and print best practices. Students develop an understanding of basic design principles and applications. Design history and the elements of composition and typography are applied through exercises and projects. The focus is on foundations of visual thinking, sketching, exploring the relationship between type and image, and developing multiple solutions to a given problem in the context of simple and complex visual information. Computer images will be constructed using the basics of Illustrator.

**NEWM-N 190 Topics in Interactive Media (1-3 cr.)** Special topics in interactive media, with a focus on exploring concepts at the forefront of media arts.

**NEWM-N 100 Foundations of New Media (3 cr.)** An exploration of the characteristics of digital media, including interactivity, hypermedia, immersion, and storytelling. Includes an introduction to the practice, theory, and history of new media, from the viewpoint of technology, communication, and culture. There are readings, demonstrations, examples, hands-on projects, and written assignments.

**INFO-I 101 Introduction to Informatics (4 cr.)** Problem solving with information technology; introductions to information representation, relational databases, system design, propositional logic, cutting-edge technologies: CPU, operation systems, networks, laboratory emphasizing information technology including web page design, word processing, databases, using tools available on campus.

### Military Science

**MIL-G 202 Leadership in Changing Environments (2 cr.)** G202 Leadership in Changing Environments (2 cr.) This course examines the challenges of leading in complex contemporary operational environments. Dimensions of the cross-cultural challenges of leadership in a constantly changing world are highlighted and applied to practical Army leadership tasks and situations. Leadership labs, physical training sessions, and a weekend field training exercise are optional, but available to those looking for more out of their college experience.

**MIL-G 102 Foundations in Leadership (1 cr.)** G102 Foundations in Leadership (1 cr.) This course provides an overview of leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills. Cadets explore dimensions of leadership values, attributes, skills, and actions in the context of practical, hands-on, and interactive exercises. Leadership labs, physical training sessions, and a weekend field training exercise are optional, but available to those looking for more out of their college experience.

**MIL-G 201 Innovative Tactical Leadership (2 cr.)** G201 Innovative Tactical Leadership (2 cr.) This course explores the dimensions of creative and innovative tactical

leadership strategies and styles by studying historical case studies and engaging in interactive student exercise. Cadets practice aspects of personal motivation and team building in the context of planning, executing and assessing team exercises. Leadership labs, physical training sessions, and a week-end field training exercise are optional, but available to those looking for more out of their college experience.

### **Physical Education and Tourism Management Foods and Nutrition**

**FN 30300 Essentials of Nutrition (3 cr.)** Basic nutrition and its application in meeting nutritional needs of all ages. Consideration is given to food selection, legislation, and community nutrition education programs.

**FN 31500 Fundamentals of Nutrition (3 cr.)** P: CHEM C101 or BIOL N217 or consent of instructor. Basic principles of nutrition and their application in meeting nutritional needs during the life cycle.

**FN 31300 PRIN OF HLTHY MENU PLG & FD PR (- cr.)** Basic nutrition as applied to food intake patterns and modifications/preparation of recipes to provide a more healthful diet.

### **Health, Physical Education, and Recreation**

**HPER-E 135 Golf (1 cr.)** Beginning instruction in techniques for putting, chipping, pitching, iron swing, and wood stroke. Course includes rules and etiquette of golf. Students play on par-3 courses. Fee charged.

**HPER-H 263 Personal Health (3 cr.)** This survey course provides a theoretical and practical treatment of the concepts of disease prevention and health promotion. Covers such topics as emotional health; aging and death; alcohol, tobacco, and drug abuse; physical fitness; nutrition and dieting; consumer health; chronic and communicable diseases; safety; and environmental health.

**HPER-P 290 Movement Experiences for Preschool and Elementary School Children (2 cr.)** Covers potential outcomes of preschool and elementary school motor development programs, how to implement such programs, and appropriate movement experiences for young children.

**HPER-R 324 Recreational Sports Programming (3 cr.)** Lecture and demonstration of first-aid measures for wounds, hemorrhage, burns, exposure, sprains, dislocations, fractures, unconscious conditions, suffocation, drowning, and poisons, with skill training in all procedures.

**HPER-H 160 First Aid and Emergency Care (3 cr.)** Lecture and demonstration of first-aid measures for wounds, hemorrhage, burns, exposure, sprains, dislocations, fractures, unconscious conditions, suffocation, drowning, and poisons, with skill training in all procedures.

**HPER-C 366 Community Health (3 cr.)** Introduction to community health within the public health context. Students will develop an understanding of historical and theoretical foundations of community health and major societal health concerns, explore community health models and programs used to address these concerns, and examine racial/ethnic, cultural, socioeconomic and related determinants of community health.

**HPER-E 190 Yoga (1 cr.)** Introduction to the basic principles and techniques of yoga.

### **Tourism, Convention, and Event Management**

**TCEM 100 Introduction to Tourism Studies (3 cr.)** Travel, trends, travel-modes, and economic impact on destination area. Emphasis on local, regional, and national tourism.

### **TCEM 112 Tourism and Hospitality Management Principles (3 cr.)**

The principles of planning, organizing, directing and controlling as applied to the hospitality service industry. Topics relating to motivation and leadership will be stressed. Issues of organizational change, organizational effectiveness and the nature of managerial work will be addressed.

### **TCEM 171 Introduction to Convention/Meeting Management (3 cr.)**

An overview of the conventions, expositions and meetings industry. Focus will be on the operational aspects of various industry segments and the intra-industry interaction of each.

### **TCEM 172 The Development and Management of Attractions (3 cr.)**

An examination of the process of developing visitor attractions and a discussion of the main issues involved in their management.

**TCEM 181 Lodging Operations (3 cr.)** Concepts of organization, communication, ethics and policy formulation in the front office. Introducing the basic techniques and trends in systems and equipment available to meet the needs of the management and the guest.

**TCEM 191 Sanitation and Health in Food Service, Lodging, and Tourism (3 cr.)** The application of sanitary and public health engineering principles to food service and lodging operations.

### **TCEM 210 Special Event Management (3 cr.)** P: TCEM 171

Course topics will include planning for social events such as themed parties, weddings, or balls, planning for fund raiser events, planning recognition events, and planning entertainment events. P: TCEM 171.

### **TCEM 231 Tourism and Hospitality Marketing (3 cr.)**

Development, use, and evaluation of effective merchandising, advertising, and public relations techniques in the hospitality and tourism industries.

### **TCEM 271 Mechanics of Meeting Planning (3 cr.)**

P: TCEM 171 An analysis of details pertinent to the organization and execution of a meeting. Topics include finances and contracts, site selection, program development, marketing, evaluation and wrap-up.

### **TCEM 310 Event Catering Management (2 cr.)**

Exploration of off premise and on premise catering requirement. Concept of event food management including menu planning, budget preparation, logistics management, guest relations and marketing.

### **TCEM 312 Human Resource Management for the Service Industries (3 cr.)** P: TCEM 112

The concepts of management of people for effective operation of institutions involving supervisory development and communications; the pretesting, training, and evaluating of

employees; and the development of attitudes and morale of people working together.

**TCEM 328 Introduction to Microbrewing (3 cr.)** P: 21 years of age

This course deals with the principles of microbrewing, and each student will learn the basic concepts necessary to create beer. In this sense, students should come away from this class with the knowledge to build his or her own microbrewery. As well, this class teaches a general appreciation for brewing and beers around the world. P: 21 years of age.

**TCEM 329 Sports Management (3 cr.)** The application of tourism marketing principles and activities will be analyzed in the content of effective tourism marketing.

**TCEM 341 Financial Analysis and Decision Making in Tourism, and Hospitality Operations (3 cr.)** P: TCEM 241

Managerial and financial analyses of numerical data used for decision-making. Consideration of systems, techniques, information types, and presentational forms used by hospitality management. Emphasis on situations oriented to the hospitality industry. P: TCEM 241.

**TCEM 362 Economics of Tourism (3 cr.)** P: TCEM 100 C: ECON E201 To discuss the economic impact of travel on tourism's various sectors, and the quantitative methods that can be applied to travel forecasting and tourism principles.

**TCEM 371 Convention Sales and Service (3 cr.)**

P: TCEM 171 This course is designed as an in-depth analysis of convention and facility sales and service. The course will enable meetings and events from the pre-planning through post event evaluation from the supplies perspective. Topics include marketing and advertising a facility property, organizing a sales staff, selling to different markets and contract/legal issues.

**TCEM 372 Global Tourism Geography (3 cr.)** P: TCEM 172 C: GEOG 300 ELEC. Analysis of U.S. and world travel destinations, including the exploration of principal geographic features, population centers and attractions, customs and traditions, habits, festivals, and events, as these relate to the hospitality and travel industry. The major airline and airport/city codes in North America and overseas are also covered.

**TCEM 377 Exhibit Marketing (3 cr.)** A successful exhibit can be one of the most powerful sales and marketing tools in any company's arsenal. This course is designed to help students through every phase of the endeavor—from the initial planning stage to implementation and post-show follow-up.

**TCEM 382 Popular Travel Trends (3 cr.)** Development of an understanding of the patterns, principles and management of international travel to popular tourist destinations.

**TCEM 471 International Meeting Planning (3 cr.)**

P: TCEM 171 The organization and production of international corporate business meetings, seminars, incentive trips and customer events using innovative and cost-effective programs that address changing business needs.

**TCEM 482 Travel to Exotic Destinations (3 cr.)**

Development of an understanding of the principles, patterns and management of international travel to exotic destinations.

**TCEM 219 Management of Sports Events (3 cr.)**

Amateur or professional sport event planning will include discussion of site selection, logistics, personnel, marketing, economics, and legalities of hosting an event.

**TCEM 252 Promotional Communications (3 cr.)**

P: ENG-W 231 Provides information on the field of personal and public relations. Explores effective public relations methods. Focuses on the relationship-oriented decisions a public relations professional must make based upon different circumstances that arise within an organization.

**TCEM 477 Non Profit Meeting Management (3 cr.)**

P: TCEM 171 Focuses on basic aspects and skills involved in planning and managing non-profit meetings and conventions. Examines sequences of events from the conceptual state of the first meeting plan through completion of the event.

**TCEM 483 Ecotourism (3 cr.)** Course will introduce students to the history, principles, marketing, planning, and management of ecotourism activities and development which promotes environmental awareness and adds economic benefits.

**TCEM 112 Tourism and Hospitality Management Principles (3 cr.)**

The principles of planning, organizing, directing and controlling as applied to the hospitality service industry. Topics relating to motivation and leadership will be stressed. Issues of organizational change, organizational effectiveness and the nature of managerial work will be addressed.

**TCEM 210 Special Event Management (3 cr.)** Course topics include planning for social events such as themed parties, weddings, balls, fundraiser recognition and entertainment events.

**TCEM 334 Cultural Heritage Tourism (3 cr.)** Cultural and heritage tourism balances visitor interests and needs against protecting cultural and heritage resources. This course examines the range of cultural and heritage assets that can become viable tourism attractions and looks at ways of linking quality cultural heritage tourism to community development. Special emphasis will be placed on Indiana cultural and heritage tourism

### **Public and Environmental Affairs Criminal Justice**

**SPEA-J 101 The American Criminal Justice System (3 cr.)** Introduction to the criminal justice system of the United States and its function in contemporary society.

**SPEA-J 150 Public Safety in America (3 cr.)** The protection of persons and property involves a number of public and private organizations. This course examines the roles that agencies working within the fire services, emergency management, criminal justice, and the private security sector play in securing public safety in the United States.

**SPEA-J 301 Substantive Criminal Law (3 cr.)** P: J101. R: J201 and J202. The development, limitations, and

application of substantive criminal law utilizing the case-study method.

**SPEA-J 305 Juvenile Justice (3 cr.)** P: J101. This course is designed to provide an overview of the justice system's response to abused, neglected, and dependent children; juvenile misconduct; and delinquent behavior. An extensive review of the development of recent legal changes to the court, options for prevention, treatment of juvenile offenders, and possible system reforms.

**SPEA-J 306 The Criminal Courts (3 cr.)** P: J101. R: J201 and J202. An analysis of the criminal justice process from prosecution through appeal. The organization and operation of felony and misdemeanor courts are examined. Topics include prosecutorial decision-making, plea bargaining, judicial selection, and the conduct of trials, sentencing, and appeal.

**SPEA-J 321 American Policing (3 cr.)** P: J101. R: J201 and J202. This course will examine the history, evolution, and organization of policing in the United States. Emphasis is placed on such major contemporary issues as the police role, discretion, use of force, corruption, accountability, and community policing.

**SPEA-J 331 Corrections (3 cr.)** P: J101. R: J201 and J202. This course examines the historical development of the American correctional system and the study of administration of local, state, and federal corrections programs, including jails, probation, community corrections, and prisons. Includes the study of punishment rationales, current correctional policies, and possibilities for reform.

**SPEA-J 201 Theoretical Foundations of Criminal Justice Policies (3 cr.)** P: SPEA-J 101.

This course examines the impact of sociological, biological, and economic theories of crime and the practice of criminal justice. Focus is on the nature and importance of theory, context of theoretical developments, methods for the critical analysis of theoretical developments, and policy implications of the varying perspectives considered.

**SPEA-J 201 Criminal Justice Data, Methods, and Resources (3 cr.)** P: SPEA-J 101.

Course examines basic concepts of criminal justice. Students become familiar with research techniques necessary for systematic analysis of the criminal justice system, offender behavior, crime trends, and program effectiveness. Students will learn to critically evaluate existing research. Students will become familiar with existing sources of criminal justice data and will learn to assess the quality of that data.

**SPEA-J 260 Topics in Criminal Justice (1-3 cr.)**

Study of selected issues in criminal justice. Topics vary from semester to semester. This course may be repeated for credit.

**SPEA-J 275 Diversity Issues in Criminal Justice (3 cr.)**

This course will examine the influence of diversity issues such as race, ethnicity, class, and gender on crime and the treatment of underrepresented groups throughout the American criminal justice system.

**SPEA-J 355 Global Criminal Justice Perspectives (3 cr.)** P: SPEA-J 101.

An international review of select criminal justice perspectives and systems within the primary legal traditions of common, civil, Islamic, and socialist systems, as well as those that do not fit into established categories, such as Native American and African tribal justice.

**SPEA-J 222 Murder in America: Causes and Consequences (3 cr.)**

An investigation of homicide in the United States. Focus on the level and nature of homicides as well as domestic homicides; serial and mass murder; race, ethnicity, and gender; drugs and alcohol; school and workplace homicides; investigation; profiling and the death penalty; and homicide prevention and intervention programs.

### Public Affairs

**SPEA-V 170 Introduction to Public Affairs (3 cr.)** Broad coverage of public affairs through critical and analytical inquiry into policy making at all levels of government. Particular emphasis on intergovernmental relations as they affect policy in the federal system. Credit not given for both V160 and V170.

**SPEA-V 221 Nonprofit and Voluntary Sector (3 cr.)**

This course provides a broad overview of the United States nonprofit sector. Topics include the sector's size and scope and its religious, historical, and theoretical underpinnings. It also examines perspectives on why people organize, donate to, and volunteer for nonprofit organizations and looks at current challenges that the sector faces.

### Science

#### Astronomy

**AST-A 100 The Solar System (3 cr.)** Fall. Survey of the solar system, including the Earth, sun, moon, eclipses, planets and their satellites, comets, laws of planetary motion, etc. Discussion of the origin of the solar system, life on earth, and the possibilities of extraterrestrial life. Also astronomical instruments and celestial coordinates.

**AST-A 105 Stars and Galaxies (3 cr.)** Spring. Survey of the universe beyond the solar system, including stars, pulsars, black holes, principles of spectroscopy and the H-R diagram, nebulae, the Milky Way, other galaxies, quasars, expanding universe, cosmology, and extraterrestrial life.

#### Biology

**BIOL 55600 Physiology I (3 cr.)** P: K10300, CHEM C342. Fall, night. Principles of physiology: nerve and muscle, temperature regulation, ion and water balance.

**BIOL-N 100 Contemporary Biology (3 cr.)** Selected principles of biology with emphasis on issues and problems extending into everyday affairs of the student.

**BIOL-N 108 Plants, Animals and the Environment (3 cr.)** This course is designed to provide students and future K-8 teachers with a background in the general biology concepts of plants, animals and the environment, which are the backbone of the State of Indiana science standards.

**BIOL-N 212 Human Biology (3 cr.)** Equiv. PU BIOL 201. First course in a two-semester sequence in human biology

with emphasis on anatomy and physiology, providing a solid foundation in body structure and function.

**BIOL-N 213 Human Biology Laboratory (1 cr.)** P: BIOL-N 212 or C: BIOL-N 212. Accompanying laboratory for BIOL-N 212.

**BIOL-N 214 Human Biology (3 cr.) Equiv. PU BIOL 202.** Continuation of BIOL-N 212.

**BIOL-N 215 Human Biology Laboratory (1 cr.)** P: BIOL-N 214 or C: BIOL-N 214. Accompanying laboratory for N214.

**BIOL-N 217 Human Physiology (5 cr.) Equiv. IU PHSL-P 215.** Lectures and laboratory work related to cellular, musculoskeletal, neural, cardiovascular, gastrointestinal, renal, endocrine, and reproductive function in humans.

**BIOL-N 251 Introduction to Microbiology (3 cr.)** P: One semester general chemistry or one semester life science. This course includes a laboratory component. The isolation, growth, structure, functioning, heredity, identification, classification, and ecology of microorganisms; their role in nature and significance to humans.

**BIOL-N 261 Human Anatomy (5 cr.) Equiv. IU ANAT-A 215.** Lecture and laboratory studies of the histology and gross morphology of the human form, utilizing a cell-tissue-organ system-body approach.

**BIOL-K 101 Concepts of Biology I (5 cr.)** P: high school or college chemistry. An introductory course emphasizing the principles of cellular biology; molecular biology; genetics; and plant anatomy, diversity, development, and physiology.

**BIOL-K 103 Concepts of Biology II (5 cr.)** P: BIOL-K 101. An introductory biology course emphasizing phylogeny, structure, physiology, development, diversity, evolution and behavior in animals.

**BIOL-K 322 Genetics and Molecular Biology (3 cr.)** P: BIOL-K 103 and CHEM C106. The course covers the principles of classical and molecular genetics including Mendelian inheritance, linkage, nucleic acids, gene expression, recombinant DNA, genomics, immunogenetics, and regulation.

**BIOL-K 493 Independent Research (1-3 cr.)** P: Consent of instructor. A course designed to give undergraduate students majoring in biology an opportunity to do research in fields in which they have a special interest.

**BIOL-K 295 SPECIAL ASSIGNMENTS (1-3 cr.)** Special work, such as directed readings, laboratory or fieldwork, or presentation of material not available in the formal courses in the department.

**BIOL-K 341 PRINC OF ECOLOGY & EVOLUTION (3 cr.)** P: BIOL-K 103. A study of the interactions of organisms with one another and with their nonbiotic environments in light of evolution.

**BIOL-K 342 PRINC OF ECOLOGY & EVOLUTN LAB (2 cr.)** P: BIOL-K 341 or C: BIOL-K 341. Application of ecology and evolution principles in laboratory and field experiments as well as demonstration of techniques of general ecology.

**BIOL-K 384 BIOLOGICAL CHEMISTRY (3 cr.)** P: CHEM-C 341. C: CHEM-C 342. Chemistry of biologically important molecules including carbohydrates, lipids, proteins, and nucleic acids. Special emphasis on chemistry of intermediary metabolism.

**BIOL-K 323 Genetics and Molecular Biology Laboratory (2 cr.)** P: BIOL-K-322. Applied principles of genetics and molecular biology using organisms of increasing complexity from viruses to fruit fly. Laboratory experiments include linkage analyses, deletion mapping, isolation of human chromosomes, mutagenesis, DNA extraction, restriction enzyme analysis, and PCR.

**BIOL-K 324 Cell Biology (3 cr.)** P: BIOL-K 103, CHEM-C 106. Examination of the structure and activity of eukaryotic cells and subcellular structures. Emphasis is on regulation of and interactions among subcellular events, such as protein targeting, transmembrane signaling, cell movement, and cell cycle.

**BIOL-K 325 Cell Biology Laboratory (2 cr.)** P: BIOL-K 324. Experiments on the molecular and biochemical basis of organization and function of eukaryotic cells.

**BIOL-K 356 Microbiology (3 cr.)** P: BIOL-K 103, CHEM-C 341. Introduction to microorganisms: cytology, nutrition, physiology, and genetics. Importance of microorganisms in applied fields including infectious disease.

**BIOL-K 357 Microbiology Laboratory (2 cr.)** P: BIOL-K 356. Laboratory experiments and demonstrations to yield proficiency in aseptic cultivation and utilization of microorganisms; experimental investigations of biological principles in relation to microorganisms.

**BIOL-K 411 Global Change Biology (3 cr.)** P: BIOL-K 101 and BIOL-K 103 or GEOL-G 109 and one course in chemistry or consent of instructor. Examination of changes in earth's environment over history. In-depth study of effects of environmental change, including global warming, on the ecology of various organisms.

**BIOL-K 490 Capstone (1 cr.)** P: Senior Standing. Faculty-directed or approved independent library research on an area of public, scientific interest or a community service activity in local industry, government, schools, or other public science-related groups or organizations.

**Additional Information:** Topics for independent research and a list of service opportunities are available in the Department of Biology Office.

**BIOL-K 494 Senior Research Thesis (1 cr.)** P: BIOL-K 493. A formally written report describing the results or accomplishments of BIOL-K 493.

### Chemistry

**CHEM-C 100 The World of Chemistry (3 cr.)** A topically oriented, nonmathematical introduction to the nature of matter. Topics covered include fossil fuel and nuclear sources of power; environmental issues involving chemistry such as recycling, acid rain, air and water pollution, global warming, ozone depletion; genetic modification of foods, DNA profiling, use of food additives and herbal supplements; and other public policy issues involving science.

**CHEM-C 101 Elementary Chemistry I (3 cr.)** Usually taken concurrently with C121. Fall, day, night; Spring, day,

night; Summer II, day. Essential principles of chemistry, atomic and molecular structure, bonding, properties and reactions of elements and compounds, stoichiometry, solutions, and acids and bases. For students who are not planning careers in the sciences and for those with no previous course work in chemistry. Note: most degree programs that include C101 require the concurrent laboratory, C121.

**CHEM-C 105 Principles of Chemistry I (3 cr.)** Fall, day, night; Spring, day; Summer I, day. Usually taken concurrently with C125. A placement examination may be required for admission to this course. See "Chemistry Placement Examination" above. Principles of inorganic and physical chemistry emphasizing physical and chemical properties, atomic and molecular structure, chemical bonding, and states of matter.

**CHEM-C 106 Principles of Chemistry II (3 cr.)** Fall, day; Spring, day, night; Summer II, day. Continuation of C105. Usually taken concurrently with C126. Topics include condensed phases, solution chemistry, thermodynamics, equilibrium, and kinetics.

**CHEM-C 110 The Chemistry of Life (3 cr.)** A nonmathematical introduction to organic molecules and their transformation to useful materials such as drugs and polymers. An emphasis is placed on the chemical features of biomolecules including hormones and neurotransmitters, proteins, lipids (fats), carbohydrates (sugars), and nucleic acids (DNA/RNA). The chemistry of enzymes, carcinogens, vitamins, antihistamines, anesthetics, genetic engineering, mental health, and other health-related topics.

**CHEM-C 115 Laboratory for C110 The Chemistry of Life (2 cr.)** Laboratory work illustrating topics covered in C110.

**CHEM-C 121 Elementary Chemistry Laboratory I (2 cr.)** Fall, day, night; Spring, day, night; Summer II, day. Introduction to the techniques and reasoning of experimental chemistry. Emphasis is given to study of physical and chemical properties of inorganic compounds.

**CHEM-C 125 Experimental Chemistry I (2 cr.)** P or C: C105 or equivalent. Fall, day, night; Spring, day; Summer I, day. Laboratory work illustrating topics covered in C105.

**CHEM-C 126 Experimental Chemistry II (2 cr.)** lecture, laboratory P: C105 and C125; P or C: C106 or equivalent. Fall, day; Spring, day, night; Summer II, day. Continuation of C125. Laboratory work illustrating topics covered in C105 and C106.

**CHEM-C 311 Analytical Chemistry Laboratory (1 cr.)** Spring, Summer I, day. Laboratory instruction in the fundamental analytical techniques discussed in C310

**CHEM-C 341 Organic Chemistry I (3 cr.)** Fall, day, night; Spring, day; Summer I, day. Comprehensive study of organic compounds. Valence bond theory, stereochemistry, and physical properties of organic compounds are discussed in detail. Introduction to reaction mechanisms and to spectroscopic identification. Synthesis and reactions of selected compounds are also discussed.

**CHEM-C 342 Organic Chemistry II (3 cr.)** Fall, day; Spring, day, night; Summer II, day. Continuation of C341. The chemistry of aromatic compounds and other major functional groups are discussed in detail. Multistep synthetic procedures and reaction mechanisms are emphasized. Introduction to biological chemistry.

**CHEM-C 343 Organic Chemistry Laboratory I (2 cr.)** Fall, day, night; Spring, day, night; Summer I, day. Fundamental laboratory techniques of organic chemistry, introduction to spectroscopic methods of compound identification, and general synthetic methods.

**CHEM-C 344 Organic Chemistry Laboratory II (2 cr.)** Fall, night; Spring, day, night; Summer II, day. Preparation, isolation, and identification of organic compounds, spectroscopic methods of compound identification, qualitative organic analysis, multistep synthesis.

**CHEM-C 384 Biological Chemistry (3 cr.)** P: CHEM-C 341. C: CHEM-C 342. Chemistry of biologically important molecules including carbohydrates, lipids, proteins, and nucleic acids. Special emphasis on chemistry of intermediary metabolism.

### Computer Information Systems

**CSCI-N 100 Introduction to Computers and Computing (3 cr.)**

P or C: MATH 001, M001, or equivalent. No computing experience assumed. How computers work, word processing, spreadsheets, file management, and Internet skills. Emphasis on problem-solving techniques. Lecture and laboratory. Credit given for only one of CSCI N100, CPT 106, CIT 106, or BUS K201.

**CSCI-N 201 Programming Concepts (3 cr.)**

Summary of basic computing topics, problem solving techniques, and their application to computing. Introduction to programming concepts with a focus on language-independent principles, such as algorithm design, debugging strategies, essential control structures, and basic data structure concepts. Lecture and laboratory.

**CSCI-N 207 Data Analysis Using Spreadsheets (3 cr.)**

P: MATH 111. Summary of basic computing topics. An introduction to data analysis using spreadsheets. Emphasis on the application of computational problem-solving techniques. Lecture and laboratory.

**CSCI-N 241 Fundamentals of Web Development (3 cr.)**

Introduction to writing content for the Internet and World Wide Web. Emphasis on servers, hand-coded HTML, Cascading Style Sheets, and extending HTML with other Web technologies. Lecture and laboratory.

**CSCI-N 301 Fundamental Computer Science Concepts (3 cr.)**

P: MATH M118. An introduction to fundamental principles of computer science, including hardware architecture, algorithms, software engineering, and data storage. Lecture and laboratory.

**CSCI-N 305 C Language Programming (3 cr.)**

The basics of computer programming concepts using the C programming language. Emphasis on problem solving

and algorithm implementation using a universal subset of the C programming language. Lecture and laboratory.

### **CSCI-N 331 Visual Basic Programming (3 cr.)**

An introduction to programming with a focus on rapid application development environments, event-driven programming, and programming in the Windows environment. Course will demonstrate how the major application types (spreadsheets, databases, text editors) are written. Lecture and laboratory.

### **CSCI-N 341 Introduction to Client-Side Web Programming (3 cr.)**

P: N241 or equivalent. Introduction to programming with a focus on the client-side programming environment. Programming using languages commonly embedded in Web browsers. Lecture and laboratory.

### **CSCI-N 342 Server-Side Programming for the Web (3 cr.)**

P: N341. Designing and building applications on a Web server. Focuses on the issues of programming applied to Web servers. Emphasis on relational database concepts, data design, languages used on the server, transaction handling, and integration of data into Web applications.

### **CSCI-N 351 Introduction to Multimedia Programming (3 cr.)**

An integration of computing concepts and multimedia development tools. An introduction to the science behind multimedia (compression algorithms and digital/audio conversion). Use of authoring tools to create compositions of images, sounds, and video. Special emphasis given to using the Web as a multimedia presentation environment. Lecture and laboratory.

### **CSCI-N 355 Introduction to Virtual Reality (3 cr.)**

Explore concepts of 3D imaging and design including primitive shapes, transformations, extrusions, face sets, texture mapping, shading, and scripting. Lecture and laboratory.

### **CSCI 23000 Computing I (4 cr.)**

P or C: MATH 154 or MATH 159. The context of computing in history and society, information representation in digital computers, introduction to programming in a modern high-level language, introduction to algorithm and data structures, their implementation as programs.

### **CSCI 24000 Computing II (4 cr.)**

P: 230. Continues the introduction of programming began in CSCI 230, with particular focus on the ideas of data abstraction and object-oriented programming. Topics include programming paradigms, principle of language design, object-oriented programming, programming and debugging tools, documentation, recursion, linked data structures, and introduction to language translation.

## **Computer Science**

**CSCI 23000 Computing I (4 cr.)** The context of computing in history and society, information representation in digital computers, introduction to programming in a modern high-level language,

introduction to algorithm and data structures, their implementation as programs.

**CSCI 24000 Computing II (4 cr.)** Continues the introduction of programming began in CSCI 230, with particular focus on the ideas of data abstraction and object-oriented programming. Topics include programming paradigms, principle of language design, object-oriented programming, programming and debugging tools, documentation, recursion, linked data structures, and introduction to language translation.

### **CSCI-N 100 Introduction to Computers and Computing (3 cr.)**

No computing experience assumed. How computers work, word processing, spreadsheets, file management, and Internet skills. Emphasis on problem-solving techniques. Lecture and laboratory. Credit given for only one of CSCI N100, CPT 10600, CIT 10600, or BUS K201.

### **CSCI-N 201 Programming Concepts (3 cr.)**

Summary of basic computing topics, problem solving techniques, and their application to computing. Introduction to programming concepts with a focus on language-independent principles, such as algorithm design, debugging strategies, essential control structures, and basic data structure concepts. Lecture and laboratory.

### **CSCI-N 207 Data Analysis Using Spreadsheets (3 cr.)**

Summary of basic computing topics, problem solving techniques, and their application to computing. Introduction to programming concepts with a focus on language-independent principles, such as algorithm design, debugging strategies, essential control structures, and basic data structure concepts. Lecture and laboratory.

### **CSCI-N 241 Fundamentals of Web Development (3 cr.)**

Introduction to writing content for the Internet and World Wide Web. Emphasis on servers, hand-coded HTML, Cascading Style Sheets, and extending HTML with other Web technologies. Lecture and laboratory.

### **CSCI-N 301 Fundamental Computer Science Concepts (3 cr.)**

An introduction to an emerging technology in the computing field. It will emphasize the various problems technology helps to solve and specific problem-solving strategies. Lecture and laboratory. May be repeated for credit.

### **CSCI-N 305 C Language Programming (3 cr.)**

The basics of computer programming concepts using the C programming language. Emphasis on problem solving and algorithm implementation using a universal subset of the C programming language. Lecture and laboratory.

### **CSCI-N 305 Visual Basic Programming (3 cr.)**

An introduction to programming with a focus on rapid application development environments, event-driven programming, and programming in the Windows environment. Course will demonstrate how the major application types (spreadsheets, databases, text editors) are written. Lecture and laboratory.

### **CSCI-N 341 Introduction to Client-Side Web Programming (3 cr.)**

Introduction to programming with a focus on the client-side programming environment. Programming using languages commonly embedded in Web browsers. Lecture and laboratory.

**CSCI-N 342 Server-Side Programming for the WebSide Web Programming (3 cr.)** Designing and building applications on a Web server. Focuses on the issues of programming applied to Web servers. Emphasis on relational database concepts, data design, languages used on the server, transaction handling, and integration of data into Web applications.

**CSCI-N 351 Introduction to Multimedia Programming (3 cr.)** An integration of computing concepts and multimedia development tools. An introduction to the science behind multimedia (compression algorithms and digital/audio conversion). Use of authoring tools to create compositions of images, sounds, and video. Special emphasis given to using the Web as a multimedia presentation environment. Lecture and laboratory.

**CSCI-N 355 Introduction to Virtual Reality (3 cr.)** Explore concepts of 3D imaging and design including primitive shapes, transformations, extrusions, face sets, texture mapping, shading, and scripting. Lecture and laboratory.

### General Science

#### **SCI-I 120 Windows on Science (1 cr.)**

Fall, spring. Designed for new and prospective science majors, the course covers an integrative overview of science, examining science and society, the scientific method and community of scientists, undergraduate research, professional ethics, an exploration of science-based careers, and strategies for success as a science major.

### Geology

**GEOL-G 107 Environmental Geology (3 cr.)** Fall, Spring, Summer. An introduction to geology through discussion of geological topics that show the influence of geology on modern society. Topics include mineral and energy resources, water resources, geologic hazards and problems, geology and health, and land use.

**GEOL-G 109 Fundamentals of Earth History (3 cr.)** Fall, Spring, Summer. Basic principles of earth history: geologic time, basic rock types, reconstructing past environments. Physical development of the earth: its interior, mountain formation, plate tectonics. Origin and development of life: evolution, the fossil record. With laboratory G119, equivalent to IUB GEOL G104, IUB GEOL G112, and PU GEOS 112.

**GEOL-G 110 Physical Geology (3 cr.)** Fall, Spring, Summer. Introduction to processes within and at the surface of the earth. Description, classification, and origin of minerals and rocks. The rock cycle. Internal processes: volcanism, earthquakes, crustal deformation, mountain building, plate tectonics. External processes: weathering, mass wasting, streams, glaciers, ground water, deserts, coasts. With laboratory G120, equivalent to IU GEOL G103, IU GEOL G111, and PU GEOS 111.

**GEOL-G 115 Introduction to Oceanography (3 cr.)** Fall, Spring, Summer. Nonmathematical introduction to the geology, biology, and physical characteristics of the ocean. Includes waves, tides, and currents of the world ocean, the adaptations and distribution of marine animals, pollution of the marine ecosystem, and an introduction to the global ocean/atmosphere system.

**GEOL-G 117 Environmental Geology Laboratory (1 cr.)** Fall, Spring, Summer. Laboratory exercises in environmental aspects of the geosciences. To accompany G107.

**GEOL-G 119 Fundamentals of Earth History Laboratory (1 cr.)** Fall, Spring, Summer. Laboratory studies of rocks, fossils, and stratigraphic principles to reconstruct past environments and interpret Earth history. To accompany G109.

**GEOL-G 120 Physical Geology Laboratory (1 cr.)** Fall, Spring, Summer. Laboratory studies of minerals and rocks, landscapes, and earth structures.

### Math

**MATH 00100 Introduction to Algebra (4 cr.)** Fall, spring, summer. Covers the material taught in the first year of high school algebra. Numbers and algebra, integers, rational numbers, equations, polynomials, graphs, systems of equations, inequalities, radicals. Credit does not apply toward any degree.

**MATH-M 1 Introductory Algebra (6 cr.)** P: Placement test or self election for students who need more time on task. Fall, spring. This is a first course in the study of algebra. Real numbers, algebraic expressions, solving equations, graphing equations, operations with polynomials, factoring polynomials, rational expressions and equations, solutions of systems of equations, radical expressions, and problem-solving strategies.

**MATH 11100 Algebra (4 cr.)** P: By placement. Fall, spring, summer. Real numbers, linear equations and inequalities, systems of equations, polynomials, exponents, and logarithmic functions. Covers material in the second year of high school algebra. This course satisfies the prerequisites needed for MATH M118, M119, 13000, 13600, 15300, 15400, and STAT 30100.

**MATH 13000 Mathematics for Elementary Teachers I (3 cr.)** P: 11100 or 11000 (with a minimum grade of C-) or equivalent. Fall, spring. Numeration systems, mathematical reasoning, integers, rationals, reals, properties of number systems, decimal and fractional notations, and problem solving.

**MATH 13200 Mathematics for Elementary Teachers III (3 cr.)** P: 13000 and one year of high school geometry. Fall, spring. Rationals, reals, geometric relationships, properties of geometric figures, one-, two-, and three-dimensional measurement, and problem solving.

**MATH 13600 Mathematics for Elementary Teachers (6 cr.)** Fall, spring. 13600 is a one-semester version of 13000 and 13200. Not open to students with credit in 13000 or 13200.

**MATH 15300 Algebra and Trigonometry I (3 cr.)** Fall, spring, summer. 15300-15400 is a two-semester version of 15900. Not open to students with credit in 15900. 15300 covers college-level algebra and, together with 15400, provides preparation for 16500, 22100, and 23100.

**MATH 15400 Algebra and Trigonometry II (3 cr.)** P: 15300 (with a minimum grade of C) or equivalent. Fall, spring, summer. 15300-15400 is a two-semester version of 15900. Not open to students with credit in 15900.

15400 covers college-level trigonometry and, together with 15300, provides preparation for 16500, 22100, and 23100.

**MATH 15900 Precalculus (5 cr.)** P: 11100 (with a minimum grade of B) or placement. Fall, spring. 15900 is a one-semester version of 15300-15400. Not open to students with credit in 15300 or 15400. 15900 covers college-level algebra and trigonometry and provides preparation for 16500, 22100, and 23100.

**MATH 16300 Integrated Calculus and Analytic Geometry I (5 cr.)** P: 15400 or 15900 (with a minimum grade of C) or equivalent, and one year of geometry. Equiv. IU MATH M211. Review of plane analytic geometry and trigonometry, functions, limits, differentiation, applications of differentiation, integration, the fundamental theorem of calculus, and applications of integration. An honors option is available in this course. Note: Effective Fall 2008, this course is offered as MATH 16500.

**MATH 16500 Analytic Geometry and Calculus I (4 cr.)** P: 15900 or 15400 (minimum grade of C) or equivalent, and one year of high school geometry. Fall, spring. Introduction to differential and integral calculus of one variable, with applications. Conic sections.

**MATH 16600 Analytic Geometry and Calculus II (4 cr.)** P: 16500 (minimum grade of C). Fall, spring. Continuation of MATH 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions.

**MATH 17100 Multidimensional Mathematics (3 cr.)** P: 15900 or 15400 (minimum grade of C) or equivalent. An introduction to mathematics in more than two dimensions. Graphing of curves, surfaces and functions in three dimensions. Two and three dimensional vector spaces with vector operations. Solving systems of linear equations using matrices. Basic matrix operations and determinants.

**MATH 22100 Calculus for Technology I (3 cr.)** P: 15400 or 15900 (with a minimum grade of C-) or equivalent, and one year of geometry. Fall. Analytic geometry, the derivative and applications, and the integral and applications.

**MATH 22200 Calculus for Technology II (3 cr.)** P: 22100 (with a minimum grade of C-). Spring. Differentiation of transcendental functions, methods of integration, power series, Fourier series, and differential equations.

**MATH 26100 Multivariate Calculus (4 cr.)** P: 16600 and 17100 (with a minimum grade of C-). Fall. Spatial analytic geometry, vectors, curvilinear motion, curvature, partial differentiation, multiple integration, line integrals, and Green's theorem. An honors option for this course is available. Note: Effective Fall 2009, this course is offered under an updated course description, as below.

**MATH-M 118 Finite Mathematics (3 cr.)** P: 11100 or 11000 (with a minimum grade of C-) or equivalent. Fall, spring, summer. Set theory, logic, permutations, combinations, simple probability, conditional probability, Markov chains. An honors option is available in this course.

**MATH-M 119 Brief Survey of Calculus I (3 cr.)** P: 11100 or 11000 (with a minimum grade of C-) or equivalent. Fall,

Spring, Summer. Sets, limits, derivatives, integrals, and applications. An honors option is available in this course.

**MATH 11000 FUNDAMENTALS OF ALGEBRA (4 cr.)** P: By placement. Fall, spring, summer. Intended primarily for liberal arts and business majors. Integers, rational and real numbers, exponents, decimals, polynomials, equations, word problems, factoring, roots and radicals, logarithms, quadratic equations, graphing, linear equations in more than one variable, and inequalities. This course satisfies the prerequisites needed for MATH M118, M119, 13000, 13600, and STAT 30100.

**MATH 26600 ORDINARY DIFFERENTIAL EQUATIONS (3 cr.)** P: 16600 and 17100 (with a minimum grade of C-). Spring. First order equations, second and nth order linear equations, series solutions, solution by Laplace transform, systems of linear equations.

**MATH 35100 ELEMENTARY LINEAR ALGEBRA (3 cr.)** P: Math 26100. Fall, spring. Systems of linear equations, matrices, vector spaces, linear transformations, determinants, inner product spaces, eigenvalues, and applications.

### Physics

**PHYS 15200 Mechanics (4 cr.)** Fall, day; Spring, day, night; Summer, day. Statics, uniform and accelerated motion; Newton's laws; circular motion; energy, momentum, and conservation principles; dynamics of rotation; gravitation and planetary motion; properties of matter; and simple harmonic and wave motion. For more information, visit our Web page at [webphysics.iupui.edu/introphysics](http://webphysics.iupui.edu/introphysics).

**PHYS 20000 Our Physical Environment (3 cr.)** Fall, night; Spring, night. A nonmathematical introduction to physical concepts and methods by means of examples from daily life and current technological applications.

**PHYS 21800 General Physics (4 cr.)** Fall, night; Spring, night; Summer, day. Mechanics, conservation laws, gravitation; simple harmonic motion and waves; kinetic theory, heat, and thermodynamics for students in technology fields.

**PHYS 21900 General Physics (4 cr.)** Fall, night; Spring, night; Summer, day. Electricity, light, and modern physics.

**PHYS 25100 Heat, Electricity, and Optics (5 cr.)** Fall, day, night; spring, day; summer, day. Heat, kinetic theory, elementary thermodynamics, and heat transfer. Electrostatics, electrical currents and devices. Magnetism and electromagnetic radiation. Optics. For more information, visit the Web site at [webphysics.iupui.edu/introphysics](http://webphysics.iupui.edu/introphysics).

### Psychology

**PSY-B 103 Orientation to a Major in Psychology (1 cr.)** This course will help students establish goals for their academic experience in three areas: career, relationships, and personal life. They will be introduced to psychological resources on campus, the faculty, and student organizations. They also will make a curriculum plan to meet their learning objectives.

**PSY-B 110 Introduction to Psychology (3 cr.)** Equiv. to IU PSY-P 155 and PU PSY 12000. This foundational course introduces students to psychology as a systematic and scientific way to think about the biological and social

aspects of behavior and mental processes. Topics include Research Methods, Behavioral Neuroscience, Sensation/ Perception, Learning, Memory, Cognition and Language, Motivation/Emotion, Personality, Social, Stress and Health, Psychological Disorders and Treatment, and Life-span Development.

**PSY-B 105 Psychology as a Biological Science (3 cr.)**

Equiv. to IU PSY P101 and PU PSY 120. Research methods and content areas of learning, sensation-perception, psychophysiology, motivation, emotions, and statistics.

**PSY-B 252 Topics in Psychology (1-3 cr.)** Topics in psychology and interdisciplinary applications. May be repeated, provided different topics are studied, for a maximum of 4 credit hours.

**PSY-B 292 Readings and Research in Psychology (1-3 cr.)** P: Consent of instructor. Independent readings and research on psychology problems. For freshmen and sophomores only.

**PSY-B 305 Statistics (3 cr.)** P: PSY-B 104 or or B 105 or B 110, and 3 credits of mathematics that carry School of Science credit. Equiv. to IU PSY K300, PSY K310, and PU PSY 201. Introduction to basic statistical concepts; descriptive statistics and inferential statistics. Introduction to data analytic software.

**PSY-B 307 Tests and Measurement (3 cr.)** P: 3 credit hours of psychology, and B305. Equiv. to IU PSY P336 and PU PSY 202. Overview of statistical foundations of psychological measurement (e.g., test development, norms, reliability, validity). Survey of commonly used assessment instruments (e.g., intelligence/aptitude, personality, academic achievement tests) and applications of psychological testing in different settings (e.g., clinical, industrial/ organizational, school, forensic/legal settings). Recommended for students considering graduate training in clinical, industrial/organizational, school, or related areas of psychology.

**PSY-B 310 Life Span Development (3 cr.)** Equiv. to PU PSY 230. Emphasizes the life span perspective of physical and motor, intellectual and cognitive, language, social and personality, and sexual development. Commonalities across the life span, as well as differences among the various segments of the life span, are examined. Theory, research, and practical applications are stressed equally.

**PSY-B 311 Introductory Laboratory in Psychology (3 cr.)** P: PSY-B 105 and B 110 or consent of instructor. Equiv. to IU PSY P211, and PU PSY 203. Introductory laboratory in experimental methods and statistical treatment of data in several areas of psychology; introduction to experimental report writing.

**PSY-B 320 Behavioral Neuroscience (3 cr.)** P: PSY-B 305. Equiv. to IU PSY P326 and PU PSY 220. Review of necessary background in neurophysiology and neuroanatomy followed by the relationship of physiology to sensory processes, motivation, and learning. Emphasis on research with animals.

**PSY-B 334 Perception (3 cr.)** P: PSY-B 105 or B110. Equiv. to IU PSY P329 and PU PSY 310. Consideration of the concepts and research in perception. Relation of

sense organ systems to human behavior. Some attention to social and cultural factors.

**PSY-B 340 Cognition (3 cr.)** P: PSY-B 105 or B110, or consent of instructor. Equiv. to IU PSY P335 and PU PSY 200. A survey of information processing theories from historical antecedents through current theories. Research methodology and theory will be emphasized throughout the discussion of issues such as perception, attention, memory, reasoning, and problem solving.

**PSY-B 344 Learning (3 cr.)** P: PSY-B 105 or B110, or consent of instructor. Equiv. to IU PSY P325 and PU PSY 314. History, theory, and research involving human and animal learning and cognitive processes.

**PSY-B 356 Motivation (3 cr.)** P: 3 credit hours of psychology. Equiv. to IU PSY P327 and PU PSY 333. Study of motivational processes in human and animal behavior, how needs and incentives influence behavior, and how motives change and develop.

**PSY-N 358 Introduction to Industrial/Organizational Psychology (3 cr.)** P: 3 credit hours of psychology, or consent of instructor. Equiv. to IU PSY P323 and PU PSY 372. This course surveys various aspects of behavior in work situations using the scientist-practitioner perspective. Traditional areas covered from personnel psychology include selection, training, and performance appraisal; areas surveyed from organizational psychology include leadership, motivation, and job satisfaction.

**PSY-B 360 Child and Adolescent Psychology (3 cr.)** P: 3 credit hours of psychology. Equiv. to IU PSY P316 and PU PSY 235. Development of behavior in infancy, childhood, and adolescence, including sensory and motor development and processes such as learning, motivation, and socialization.

**PSY-B 362 Practicum in Child Psychology (3 cr.)** P: Consent of instructor. Experience working with children in field setting. May be repeated once.

**PSY-B 365 Stress and Health (3 cr.)** This course will familiarize students with the study of physical health within the field of psychology. Topics include the relationship between stress and health, health promotion, health behaviors, chronic illness, and the patient-physician relationship. Research methods in health psychology as well as major theories underlying the field will be examined and evaluated. Psychological variables related to physical health will be examined within the framework of these theories. Practical application of constructs will be emphasized through activities and writing assignments.

**PSY-B 370 Social Psychology (3 cr.)** P: 3 credit hours of psychology. Equiv. to IU PSY P320 and PU PSY 240. Study of the individual in social situations including socialization, social perception, social motivation, attitudes, social roles, and small group behavior.

**PSY-B 374 Group Dynamics Theory and Research (3 cr.)** P: PSY-B 370. An intensive survey of research and theory on the behavior of small groups and the research methods by which groups are studied.

**PSY-B 375 Psychology and Law (3 cr.)** This course provides an overview of the U.S. legal system from a behavioral science perspective. Topics include: careers in psychology and law; theories of crime; police

investigations and interrogations; eyewitness accuracy; jury decision-making; sentencing; assessing legal competence; insanity and dangerousness; and the psychology of victims.

**PSY-B 376 The Psychology of Women (3 cr.)** P: 3 credit hours of psychology. Equiv. to IU PSY P460 and PU PSY 239. A survey of topics in psychology as related to the biological, social, and psychological development of women in modern society.

**PSY-B 380 Abnormal Psychology (3 cr.)** Equiv. to IU PSY P324 and PU PSY 350. Various forms of mental disorders with emphasis on cause, development, treatment, prevention, and interpretation.

**PSY-B 382 Practicum in Community Psychology (3 cr.)** P: or C: PSY-B 370 or B380 and consent of instructor. Experience working with individuals who may have a wide range of psychological problems. Focus is upon both the individual and helping agency as factors in the community.

**PSY-B 386 Introduction to Counseling (3 cr.)** P: PSY-B 104 or B110, B310, and B380. This course will help students acquire a repertoire of basic counseling interview skills and strategies and expose students to specific helping techniques. This will be an activity-based course and students will enhance the general-education goals of listening and problem solving.

**PSY-B 394 Drugs and Behavior (3 cr.)** P: PSY-B 105 or B110. Equiv. to PU PSY 428. An introduction to psychopharmacology, the study of drugs that affect behavior, cognitive functioning, and emotions, with an emphasis on drugs of abuse. The course will explore how drugs alter brain function and the consequent effects, as well as the long-term consequences of drug exposure.

**PSY-B 396 Alcohol, Alcoholism, and Drug Abuse (3 cr.)** Provides introduction to the use, misuse, and dependent use of alcohol and other mood-altering drugs. Topics include basic principles of drug action, the behavioral and pharmacological effects of drugs, and the factors that influence use, abuse, and addiction. Addiction assessment, treatment, and treatment outcome also will be covered.

**PSY-B 422 Professional Practice (1-3 cr.)** P: Consent of instructor. Can include a professional internship in the community, peer advising in the psychology advising office, or teaching internship in the department. Faculty mentor must approve and oversee activity. Academic work will be required to earn credit.

**PSY-B 424 Theories of Personality (3 cr.)** P: 3 credit hours of psychology. Equiv. to IU PSY P319 and PU PSY 420. Methods and results of the scientific study of personality, including the development, structure, and functioning of the normal personality.

**PSY-B 425 Capstone Laboratory in Personality (3 cr.)** P: PSY-B 305, B311 and B424. Demonstrations and experiments in personality research.

**PSY-B 452 Seminar in Psychology (1-3 cr.)** P: PSY-B 305 and B311. Topics in psychology and interdisciplinary applications. May be repeated, provided different topics are studied, for a maximum of 6 credit hours.

**PSY-B 471 Capstone Laboratory in Social Psychology (3 cr.)** P: PSY-B 311 and B305. C: PSY-B 370. Equiv.

to IU PSY P421. Observational, correlational, and experimental studies in social psychology.

**PSY-B 472 Practicum in Group Dynamics (3 cr.)** P: 6 credit hours of psychology and consent of instructor. Equiv. to IU PSY P321. Application in the field of group dynamics through experience as a participant in group sensitivity training.

**PSY-B 492 Readings and Research in Psychology (1-3 cr.)** P: Consent of instructor. Equiv. to IU PSY P495 and PU PSY 390 and 391. Independent readings and research on psychological problems.

**PSY-B 321 Clinical Writing (1 cr.)** P: 3 credit hours of psychology. Prepares students to be competent and accurate in clinical documentation in the behavioral health profession. This course includes learning clinical abbreviations, documentation requirements by Medicaid/Medicare, and insurance companies. The course will review clinical documentation from intake to discharge.

**PSY-B 325 Professional Ethics (1 cr.)** P: 3 credit hours of psychology. Overviews ethical codes and standards for professional practice in behavioral health. Students will explore practices and dilemmas.

**PSY-B 328 Working With Families (2 cr.)** P: PSY-B 104 or B110, or C: PSY-B 310. Provides a knowledge and skill base for professional practice with families. The course reviews issues regarding confidentiality and mandatory reporting, assessment, and coordination with other social service agencies.

**PSY-B 388 Human Sexuality (3 cr.)** This course provides a scientific approach to the study of human sexuality. The course will go over important topics in the field, develop and enhance critical thinking skills, and facilitate self-exploration and personal growth.

**PSY-B 395 Issues in Substance Abuse Counseling (3 cr.)** P: Consent of instructor. Focuses on building knowledge and skills in substance abuse counseling. This course explores the issues and challenges for clients and counselors.

**PSY-B 497 Capstone Individual Research (3 cr.)** P: PSY-B 305, B311, and consent of instructor. Independent research projects. This course requires the student to develop a research question, design a research study, and complete a research paper. Additionally, students are required to present their research at an approved conference. This activity has been approved to fulfill capstone course requirements.

**PSY-B 303 Career Planning for Psychology Majors (1 cr.)** Equiv. to IU PSY-P 199. Students will explore careers, practice job search skills, and learn about graduate and professional school application processes. Students will utilize resources across campus and in psychology, map an academic and co-curricular plan, and develop an understanding of how knowledge gained from the discipline of psychology can be integrated into their career.

**PSY-B 311 Critical Thinking in Psychology (3 cr.)** This course introduces students to the process of critical thinking that is defined as a process to investigate problems, gather reliable information, logical problem solving and the ability to analyze and synthesize various

forms of information and to develop logical conclusions. This course introduces scientific methodology as a process that can be applied in daily living. The course provides experience in fact finding, thinking from alternative perspectives, and various problem solving strategies. Students will practice developing rational arguments while considering claims by alternative points of view. Students will experience and gain skills in posing academic questions and how to respectfully present counterpoints. May be repeated for a maximum of six credits, provided different topics are studied.

**PSY-B 390 Psychology of the Movies (3 cr.)** P: PSY-B 110 or equivalent. R: PSY-B 310 and PSY-B 380.

This course introduces students to critical thinking and analysis of psychological concepts and theories as they are portrayed in movies. Topics include the interplay of personalities, social dynamics, stereotypes, prejudice, social policy and social justice. The course presents strategies and models to complete analysis of various psychological aspects of movies including the psychological effects of special effects, cinematography, sound, and other media art forms. May be repeated for up to 6 credits total.

### Statistics

**STAT 35000 Introduction to Statistics (3 cr.)** P: 16600.

Spring. A data-oriented introduction to the fundamental concepts and methods of applied statistics. STAT 35000 is intended primarily for majors in the mathematical sciences: mathematics, actuarial sciences, mathematics education. The objective is to acquaint the students with the essential ideas and methods of statistical analysis for data in simple settings.

**STAT 30100 Elementary Statistical Methods I (3 cr.)**

Not open to students in the Department of Mathematical Sciences. Fall, spring, summer. Introduction to statistical methods with applications to diverse fields. Emphasis on understanding and interpreting standard techniques. Data analysis for one and several variables, design of samples and experiments, basic probability, sampling distributions, confidence intervals and significance tests for means and proportions, and correlation and regression. Software is used throughout.

### Social Work and Labor Studies

#### Labor Studies

**LSTU-L 100 Survey of Unions and Collective Bargaining (3 cr.)**

This course includes coverage of historical development, labor law basics, and contemporary issues. It also discusses a survey of labor unions in the United States; focusing on their organization and their representational, economic, and political activities.

**LSTU-L 101 American Labor History (3 cr.)**

This course explores the struggles of working people to achieve dignity and security from social, economic, and political perspectives. It also explores a survey of the origin and development of unions and the labor movement from colonial times to the present.

**LSTU-L 104 Labor History (3 cr.)**

This course serves as an orientation for the study of labor history. It explores both critical and historical methodologies based on primary and secondary sources,

biases, and interpretations. Discussions focus on selective questions and events.

**LSTU-L 110 Introduction to Labor Studies: Labor and Society (3 cr.)**

This course introduces students to the interdisciplinary and advocacy approach of labor studies. Exploring labor's role in society, the class will look at how unions have changed the lives of working people and contributed to better social policies. Discussions will highlight the relationship of our work lives to our non-work lives and will look at U.S. labor relations in a comparative framework.

**LSTU-L 200 Survey of Employment Law (3 cr.)**

This course explores statutes and common-law actions protecting income, working conditions, and rights of workers. Topics include workers' compensation, unemployment compensation, fair labor standards, Social Security, retirement income protection, and privacy and other rights.

**LSTU-L 201 Labor Law (3 cr.)**

This course reviews a survey of the law governing labor-management relations. Topics include the legal framework of collective bargaining, problems in the administration and enforcement of agreements, and protection of individual employee rights.

**LSTU-L 203 Labor and the Political System (3 cr.)**

This course examines federal, state, and local governmental effects on workers, unions, and labor-management relations; political goals; influences on union choices of strategies and modes of political participation, past and present; relationships with community and other groups.

**LSTU-L 205 Contemporary Labor Problems (3 cr.)**

This course examines some of the major problems confronting society, workers, and the labor movement. Topics may include automation, unemployment, international trade, environmental problems, minority and women's rights, community relations, and changing government policies.

**LSTU-L 210 Workplace Discrimination and Fair Employment (3 cr.)**

This course examines policies and practices that contribute to workplace discrimination and those designed to eliminate it. It explores effects of job discrimination and occupational segregation. It analyzes Title VII, the Americans with Disabilities Act, and related topics in relation to broader strategies for addressing discrimination.

**LSTU-L 220 Grievance Representation (3 cr.)**

This course looks at union representation in the workplace. It evaluates uses of grievance procedures to address problems and administer the collective bargaining agreement. It also explores analyses of relevant labor law and the logic applied by arbitrators to grievance decisions. Students learn about the identification, research, presentation, and writing of grievance cases.

**LSTU-L 230 Labor and the Economy (3 cr.)** This course analyses aspects of the political economy of labor and the

role of organized labor within it. It emphasizes the effect on workers, unions, collective bargaining of unemployment, investment policy, changes in technology and corporate structure. It also explores patterns of union political and bargaining responses.

**LSTU-L 240 Occupational Health and Safety (3 cr.)**

This course reviews elements and issues of occupational health and safety. It emphasizes the union's role in the implementation of workplace health and safety programs, worker and union rights, hazard recognition techniques, and negotiated and statutory remedies-in particular the OSHA Act of 1970.

**LSTU-L 260 Leadership and Representation (3 cr.)**

This course evaluates organizational leadership issues for union, community, and other advocate organizations. It analyzes leadership styles, membership recruitment, and leadership development. It examines the role of leaders in internal governance and external affairs, including committee building, delegation, negotiations, and coalition building.

**LSTU-L 270 Union Government and Organization (3 cr.)**

This course provides an analysis of the growth, composition, structure, behavior, and governmental processes of U.S. labor organizations, from the local to the national federation level. It considers the influence on unions of industrial and political environments; to organizational behavior in different types of unions; and to problems in union democracy.

**LSTU-L 315 The Organization of Work (3 cr.)** This course examines how work is organized and how jobs are evaluated, measured, and controlled. It explores social and technical elements of work through theories of scientific management, the human relations school of management, and contemporary labor process literature.

**LSTU-L 320 Grievance Arbitration (3 cr.)**

P: Recommended only after L220 or with permission of instructor. This course explores the legal and practical context of grievance arbitration, and its limitations and advantages in resolving workplace problems. Varieties of arbitration clauses and the status of awards are also explored. Students analyze research, prepare, and present cases in mock arbitration hearings.

**LSTU-L 350 Issues in Collective Bargaining (3 cr.)** This course includes readings and discussions on selected problems. A research paper is usually required.

**LSTU-L 360 Union Administration and Development (1-3 cr.)**

This is course covers practical and theoretical perspectives on strategic planning, budgeting, and organizational decision making. It addresses the needs and problems of union leaders by studying organizational change, staff development, and cohesiveness within a diverse workforce. This course may be repeated for up to 3 credits with department approval.

**LSTU-L 380 Theories of the Labor Movement (3 cr.)**

This course examines various perspectives on the origin, development, and goals of organized labor. Theories include those that view the labor movement as a business union institution, an agent for social reform, a revolutionary

force, a psychological reaction to industrialization, a moral force, and an unnecessary intrusion.

**LSTU-L 385 Class, Race, Gender, and Work (3 cr.)** This course provides a historical overview of the impact and interplay of class, race, and gender on shaping U.S. labor markets, organizations, and policies. It examines union responses and strategies for addressing class, race, and gender issues.

**LSTU-L 420 Labor Studies Internship (1-6 cr.)**

This course applies classroom knowledge in the field. L420 may be repeated for a maximum of 6 credit hours.

**LSTU-L 480 Senior Seminar or Readings (3 cr.)**

This course can be used as a classroom seminar or directed reading course. It addresses current issues, historical developments, and other labor-related concerns. Topics may vary each semester.

**LSTU-L 490 Topics in Labor Studies (1-3 cr.)**

This is a variable-title course. L490 can be repeated for credit with different subjects. The transcript will show a different subtitle each time the course is taken. Some courses focus on contemporary or special areas of labor studies. Others are directed toward specific categories of employees and labor organizations. Inquire at Labor Studies offices.

**LSTU-L 495 Directed Labor Study (1-6 cr.)**

This is a variable credit course. L495 may be repeated for a maximum of 6 credit hours. Students arrange to study with an individual labor studies faculty member, designing a course of study to suit their individual and varied needs and interests. The contract might include reading, directed application of prior course work, tutorials, or internships. Competencies are assessed through written papers, projects, reports, or interviews.

**LSTU-L 290 Topics in Labor Studies (1-3 cr.)**

This is a variable-title course. L290 can be repeated for credit with different subjects. The transcript will show a different subtitle each time the course is taken. Some courses focus on contemporary or special areas of labor studies. Others are directed toward specific categories of employees and labor organizations. Inquire at Labor Studies offices.

**LSTU-L 231 Globalization and Labor (3 cr.)**

This course explores the globalization of trade, production, and migration and the effects of these processes on American workers. Through reading, discussion, and problem formation, students will critically think about the ways global processes and policies impact American workers' daily lives, analyze existing historical and current justifications for offshore production and the dismantling of barriers to trade and investment, and explore alternatives to these policies.

**LSTU-L 330 Grievance Arbitration (3 cr.)**

P: Recommended only after L220 or with permission of instructor. This course uses a political economy framework to explore and compare countries' systems of labor relations, drawing from at least three continents.

It analyzes the diverse approaches to the structure of twenty-first century labor law and social policy. It focuses on the role of organized labor in the global economy, patterns of breakdown in the enforcement of labor and

employment law, and union and nonunion political and bargaining responses.

#### **LSTU-L 314 Ethical Dilemmas in Work Place (3 cr.)**

This course explores the ethical decision-making and behavior in a unionized workplace, based on the values and social justice mission of unions. Students will examine what constitutes ethical standards on issues such as affirmative action, transparency, membership involvement, and democratic procedures. This includes the philosophical and theoretical bases for ethics and discussions on the relationship between law and ethics in dealing with workplace conflict.

**LSTU-L 370 LABOR AND RELIGION (3 cr.)** This course examines the relationship between religion and the labor movement as it has developed in the United States over the course of the 19th and 20th centuries. Students will analyze the approach taken by religious institutions concerning workers' issues and assess the tradition in which workers of faith connect to more secular concerns for social and economic justice.

#### **Social Work**

#### **SWK-S 100 Understanding Diversity in a Pluralistic Society (3 cr.)**

Theories and models that enhance understanding of our diverse society. This course provides content about differences and similarities in the experiences, needs, and beliefs of selected minority groups and their relation to the majority group.

#### **SWK-S 141 Introduction to Social Work (3 cr.)**

Examination of characteristics, function, and requirements of social work as a profession. Emphasis on ideological perspectives of the profession and the nature of professional function and interaction.

#### **State Wide Technology**

#### **Industrial Technology**

**IT 35100 Advanced Industrial Safety And Health Management (3 cr.)** An introduction to OSHA and standards development for occupational health in general industry. Special emphasis is on fire protection and egress, flammable and combustible liquids, electrical, personal protective equipment, machine guarding, industrial hygiene/blood borne pathogens, ergonomics, and ISO 9000/14000 integration.

**IT 38100 Total Productive Maintenance (3 cr.)** P: IT 214 and Stat 30100 or IT 34200 This course is a study of the role and scope of total productive maintenance (TPM) in manufacturing. The three types of maintenance activities: corrective, preventive, predictive, and their associated quantitative techniques are studied. Reliability and queuing theory are discussed.

**IT 44200 Production Planning (3 cr.)** A study of industrial organization and management, research and development, production, personnel, and sales. Examples of the procedures necessary to provide a product or service are included. Field trips may be required

**IT 21400 Introduction to Lean Manufacturing (3 cr.)** Lean manufacturing is a systematic approach to eliminating non-value added activities throughout a production system. Five basic principles characterize a lean production system: value definition, value stream

mapping, flow optimization, pull production, and continuous improvement.

**IT 23000 Industrial Supply Chain Management (3 cr.)** A study of industrial supply chains. Emphasis is on in-plant shipping and receiving functions; modes of distribution; functions of, and services provided by supply chains. Emphasis is placed on how manufacturers, distributors and end users can provide value in the supply chain.

**IT 33200 Purchasing, Inventory, and Warehouse Management (3 cr.)** A course designed to develop understanding of types of warehouses, methods of organizing the warehouse environment, and determining efficient inventory control procedures. Purchasing of products, storage of inventory, placement of inventory and other internal logistics management topics will be explored. Real world projects conducted in lab environment will be utilized.

#### **IT 34200 Introduction to Statistical Quality (3 cr.)**

Basic concepts of quality systems in business and manufacturing settings are presented. Basic statistical methods as applied to quality control, and an introduction to sampling plans are included. Field trips may be required.

#### **IT 34500 Automatic Identification and Data Capture (3 cr.)**

The course provides a basic understanding of automatic identification and data capture technologies and concepts with regard to how their deployment affects business and industry. Laboratory applications of bar codes, radio frequency identification, card technologies, and biometrics will be emphasized.

#### **IT 45000 Production Cost Analysis (3 cr.)**

P: Undergraduate level MA 15900 Minimum Grade of D- or (Undergraduate level MA 15300 Minimum Grade of D- and Undergraduate level MA 15400 Minimum Grade of D-). An introduction to financial statements and to the study of the costs of production in terms of break-even and least-cost alternatives, including present and future costs when related to the time value of money, budgeting, labor and overhead, production, cost control, and the role of the supervisor and the engineering technologist to cost control. Computer applications for determining rate of return for complex problems are introduced.

**IT 38500 Industrial Ergonomics (3 cr.)** P: Undergraduate level MA 15900 Minimum Grade of D- or (Undergraduate level MA 15300 Minimum Grade of D- and Undergraduate level MA 15400 Minimum Grade of D-). A course designed to focus on work design and ergonomics in manufacturing. Specific attention will be focused on introducing the terminology and the techniques used in work design and on the fundamental concepts embodied in industrial ergonomics. During scheduled laboratory times, exercises will permit the student to apply the concepts of industrial ergonomics.

#### **Industrial Technology**

#### **Mechanical Engineering Technology**

**MET 11100 Applied Statics (3 cr.)** Class 2, Lab 2. P: 10500. C: MATH 15400. A study of force systems, resultants and equilibrium, trusses, frames, centroids of areas, and center of gravity of bodies.

**MET 14200 Manufacturing Processes (3 cr.)** Class 2, Lab 3; or Class 3. P: 14100. Basic casting, forming, and

joining processes are surveyed. The course emphasizes the selection and application of various processes.

**MET 21100 Applied Strength of Materials (4 cr.)** Class 3, Lab 2; or Class 4. P: 11100 and 16300 or 16000. C: MATH 22100. The principles of strength, stiffness, and stability are introduced and applied primarily to mechanical components.

**MET 21300 Dynamics (4 cr.)** Class 2, Lab 2; or Class 3. P: 11100. C: MATH 22100. Kinematics and kinetics principles of rigid-body dynamics are introduced. Emphasis is on the analysis of bodies in plane motion.

**MET 21400 Machine Elements (3 cr.)** P: 21100 and PHYS 21800. Class 3. The theories and methods of statics, dynamics, and strength of materials applied to the selection of basic machine components. The course will develop the fundamental principles required to select the individual elements making up a machine.

**MET 23000 Fluid Power (3 cr.)** P: 11100, PHYS 21800. Class 2, Lab 2; or Class 3. This course consists of the study of compressible and incompressible fluid statics and dynamics as applied to hydraulic and pneumatic pumps, motors, transmissions, and controls.

**MET 24200 Manufacturing Processes II (3 cr.)** P: MET 14100, MATH 15900 or 15400 or MET 16200, CIT 13500 or MET 16300. Class 2, Lab 2. This course surveys the manufacturing processes and tools commonly used to convert cast, forged, molded, and wrought materials into finished products. It includes the basic mechanisms of material removal, measurement, quality control, assembly processes, safety, process planning, and automated manufacturing. Not open to students having credit for 13500 or 28100.

**MET 34000 Piping and Plumbing Design (3 cr.)** P: 22000. Class 3. Design of plumbing systems, including losses in pipes, fittings, nozzles, orifices, etc. Includes steam, water, and oil systems. Piping handbooks and catalogs are used in conjunction with the State of Indiana Plumbing Code.

**MET 42600 Internal Combustion Engines (3 cr.)** Class 2, Lab 3. P: 22000. A study of the spark ignition, compression ignition, and continuous-burning internal combustion engines.

**MET 14400 MATERIALS AND PROCESSES II (3 cr.)** An overview of structures, properties, processing, and applications of polymers, composites, laminates, biomaterials, green materials, nanomaterials, and pharmaceuticals commonly used in industry is presented. Problem solving skills are developed in the areas of material selection, evaluation, measurement, and testing. This course serves as the gateway for the MET and MFET programs.

**MET 16000 ANALYTICAL & COMP TOOLS IN MET (3 cr.)** The skills needed to solve technical problems in mechanical engineering technology are developed. Instruction is given in analytical and computational problem-solving techniques. The electronic calculator, the factor-label method of unit conversions, engineering graphs, and the computer are used to solve problems. Computer emphasis is on spreadsheet analysis, graphics, and generation of technical reports through the integrated

use of software packages. Credit will not be granted for MET 16000 and MET 16200 or MET 16300.

**MET 31300 APPLIED FLUID MECHANICS (3 cr.)** P: (Undergraduate level MA 22200 Minimum Grade of D- or Undergraduate level MATH 22200 Minimum Grade of D- or Undergraduate level MA 16200 Minimum Grade of D- or Undergraduate level MA 22800 Minimum Grade of D- or Undergraduate level MA 16600 Minimum Grade of D-) and Undergraduate level MET 22000 Minimum Grade of D- and (Undergraduate level MET 23000 Minimum Grade of D- or Undergraduate level MET 33000 Minimum Grade of D-). The fundamental principles of fluid mechanics are developed, including properties of fluid, pressure, hydrostatics, dynamics of fluid flow, friction losses, and sizing of pipes. Emphasis is on problem solving.

**MET 29000 SPECIAL TOPICS IN MET (3 cr.)** Hours, subject matter, and credit to be arranged by faculty. Group instruction in new or specialty areas of Mechanical Engineering Technology is provided by MET faculty, subject to MET curriculum subcommittee approval.

**MET 24500 MANUFACTURING SYSTEMS (3 cr.)** P: (Undergraduate level MET 14300 Minimum Grade of D- and Undergraduate level CGT 11000 Minimum Grade of D-) or (Undergraduate level MET 14400 Minimum Grade of D- and Undergraduate level CGT 11000 Minimum Grade of D-) or (Undergraduate level MET 14300 Minimum Grade of D- and Undergraduate level CGT 16300 Minimum Grade of D-) or (Undergraduate level MET 14400 Minimum Grade of D- and Undergraduate level CGT 16300 Minimum Grade of D-). This course surveys the manufacturing processes and tools commonly used to convert cast and molded, formed, and joined materials into finished products. It includes the fundamentals of material removal, measurement, statistical quality control, assembly processes, process planning and optimization, CNC programming and automated manufacturing.

**MET 34600 ADV MATERIALS IN MANUFACTURING (3 cr.)** P: (Undergraduate level CHM 11100 Minimum Grade of D- or Undergraduate level CHM 11500 Minimum Grade of D-) or (Undergraduate level CHEM C1010 Minimum Grade of D- and Undergraduate level CHEM C1210 Minimum Grade of D-) or (Undergraduate level CHEM C1050 Minimum Grade of D- and Undergraduate level CHEM C1250 Minimum Grade of D-) and (Undergraduate level MET 24200 Minimum Grade of D- or Undergraduate level MET 24500 Minimum Grade of D- or Undergraduate level MET 33500 Minimum Grade of D- or Undergraduate level MFET 13500 Minimum Grade of D-) and (Undergraduate level MET 21100 Minimum Grade of D- or Undergraduate level MET 21200 Minimum Grade of D-). Metals, polymers, ceramic, and composite materials are studied. Crystal structure, molecular behavior, and the effects of various processes on material properties are considered. Course emphasizes the development and control of material properties to meet engineering requirements and specifications.

**MET 49900 MECH ENGR TECH (0-9 cr.)** Class 0-4, Lab 0-9. Hours and subject matter to be arranged by staff. Course may be repeated for up to 9 credit hours.

**MET 14300 MATERIALS AND PROCESSES I (3 cr.)** P: Prerequisites: MA 22300 (may be taken concurrently)

and MET 16200 and (PHYS 21800 or PHYS 22000.) Heat/Power is an introduction to the principles of thermodynamics and heat transfer. Basic thermodynamic processes are used to evaluate the performance of energy-based systems such as internal combustion engines, power plants, and refrigeration equipment.

**MET 22000 HEAT/POWER (3 cr.)** P: (Undergraduate level MET 16200 Minimum Grade of D- or Undergraduate level MET 16000 Minimum Grade of D-) and (Undergraduate level PHYS 22000 Minimum Grade of D- or Undergraduate level PHYS P2010 Minimum Grade of D- or Undergraduate level PHYS P2020 Minimum Grade of D- or Undergraduate level PHYS 21800 Minimum Grade of D- or Undergraduate level PHYS 20100 Minimum Grade of D- or Undergraduate level PHYS 17200 Minimum Grade of D- or Undergraduate level PHYS 15200 Minimum Grade of D-) or (Undergraduate level PHYS 16200 Minimum Grade of D- and Undergraduate level PHYS 16300 Minimum Grade of D-) and (Undergraduate level MA 22100 Minimum Grade of D- [may be taken concurrently] or Undergraduate level MA 16100 Minimum Grade of D- [may be taken concurrently] or Undergraduate level MA 16300 Minimum Grade of D- [may be taken concurrently] or Undergraduate level MA 16500 Minimum Grade of D- [may be taken concurrently] or Undergraduate level MATH M1190 Minimum Grade of D- [may be taken concurrently] or Undergraduate level MA 22700 Minimum Grade of D- [may be taken concurrently]). Heat/Power is an introduction to the principles of thermodynamics and heat transfer. Basic thermodynamic processes are used to evaluate the performance of energy-based systems such as internal combustion engines, power plants, and refrigeration equipment.

### Organizational Leadership

#### **OLS 33100 Occupational Safety and Health (3 cr.)**

Class 3. Aspects of occupational safety and health that are essential to the first-line supervisor. Emphasis on economic, legal, and social factors related to providing a safe and healthful working environment.

**OLS 37500 Training Methods (3 cr.)** P: 25200 and 27400 or consent of department. This course teaches the fundamentals of the design facilitation and evaluation of formal training and development programs. Understanding the way people learn jobs skills is emphasized.

**OLS 37800 Labor Relations (3 cr.)** This course teaches the regulations concerning management, labor, the collective bargaining agreement, and grievance and arbitration procedures.

**OLS 47600 Compensation Planning and Management (3 cr.)** Class 3. Focuses on the management of employee compensation. Examines the current state of compensation management and implications of recent theoretical and research developments related to compensation decisions. Gives each student the opportunity to develop a compensation package.

**OLS 48700 Leadership Philosophy (3 cr.)** P: 25200 and 27400/37400. Class 3. This course facilitates the understanding and practice of various leadership roles required in supervisory situations. Students, through applying group dynamics and leadership theory, will develop new skills, capabilities, and understandings.

Students will have fundamental shifts in their thinking about traditional leadership and in their ability to function in new leadership styles.

**OLS 47900 Staffing Organizations (3 cr.)** Class 3. A detailed look at the recruiting function of organizations to give the student a sense of the challenges of recruiting qualified employees.

**OLS 25200 Human Behavior in Organizations (3 cr.)** Class 3. Study of individual and group behavior in organizations. Special emphasis on typical supervisory relationships.

**OLS 47700 Conflict Management (3 cr.)** This course provides students with a firm understanding of the theory and context as they relate to front-line supervision and managing conflict in the workplace including communicating with others, collaborating, negotiating effective outcomes, mediating disputes, leading teams, and handling employee relations issues.

**OLS 27400 Applied Leadership (3 cr.)** Class 3. Introduction to and overview of the fundamental concepts of supervision. Emphasis on the supervisor's major functions and essential areas of knowledge, relations with others, and personal development.

**OLS 48400 LDRSHP STRAT FOR QUAL/PRDCTY (3 cr.)** P: IT 34200, OLS 38600 and 38800 A study of how organizational leaders create an environment conducive to high levels of employee self-motivation, quality, and productivity. Actual case situations are used to illustrate the application of course content.

**OLS 38600 LEADERSHIP ORGANIZATL CHANGE (3 cr.)** P: OLS 25200 and 27400 A survey of the concepts that provide a foundation for the understanding of leadership and its relationship to the management of organizational change, with special emphasis on managing the human side of quality improvement.

**OLS 28400 LEADERSHIP PRINCIPLES (3 cr.)** An in-depth study of a sequence of manager actions that influence employees to achieve desired performance results. How these manager actions are transformed by employers into desired performance is also covered.

#### **OLS 49900 SPECIAL TOPICS IN OLS (3 cr.)**

P: Instructor consent and departmental approval. (May be repeated for up to six credits.) Supervised individual research on appropriate topics.

**OLS 45000 PROJECT MGMT FOR ORG & HR DEV (3 cr.)** P: Undergraduate level OLS 38600 Minimum Grade of C and Undergraduate level OLS 38800 Minimum Grade of C. An introduction to project management concepts and practices in the context of human resource development projects.

**OLS 44000 LEADING WITH INTEGRITY (3 cr.)** P: OLS 38600 and 38800 An investigation of ethical problems in business practice. Topics include personal morality in profit-oriented enterprises; codes of ethics; obligations to employees and other stakeholders; truth in advertising; whistle-blowing and company loyalty; regulation; self and government; the logic and future of capitalism. Emphasis on business law and legal impacts on ethical decisions.

#### **OLS 37600 HUMAN RESOURCES ISSUES (3 cr.)**

P: OLS 25200 and 27400 Analysis and discussion of case

problems concerning typical leadership and personnel situations that impact upon the supervisor/manager. Emphasis directed toward development of attitude, philosophy, analytical ability, and problem-solving skills within the working environment.

**OLS 46700 SERVICE LEARNING (3 cr.)** P: OLS 38600 and 38800 - For organizational leadership and supervision majors only. Instructor consent required. Credit awarded upon the completion of department-approved project. (May be repeated for up to six credits.) An instructor-directed practicum designed to combine University study with work experience directly related to the student's plan of study. Designed to be scheduled during a regular semester.

**OLS 35100 INNOVATION & ENTREPRENEURSHIP (3 cr.)** P: Undergraduate level OLS 27400 Minimum Grade of C and (Undergraduate level MGMT 20000 Minimum Grade of D- or Undergraduate level BUS A2010 Minimum Grade of D-). An in-depth study of innovation in existing organizations as well as entrepreneurship in start-up businesses, franchises, family-owned firms, and other business formats.

**OLS 45600 LEADRSHP IN GLOBAL ENVIRONMENT (3 cr.)** P: Undergraduate level OLS 38600 Minimum Grade of C and Undergraduate level OLS 38800 Minimum Grade of C. Exploration of leadership strategies for organizations engaged in international business. Includes understanding of cultural differences and diverse business practices, and challenges of competing in a global marketplace.

**OLS 34500 CRITICAL THINKNG-ORGANIZATIONS (3 cr.)** P: OLS 38600 & 38800 This course focuses on systems thinking and the understanding of research design and measurement theory used in solving organizational and human resource development problems. The emphasis is on applied methodology rather than on statistical issues, with the intent of the student becoming an effective consumer of information. The student will learn how to report findings in a practical and influential manner. Includes the importance of knowledge management issues in organizations.

#### Other

**CAND 99100 Candidate (0 cr.)** If you are an undergraduate, you will be given permission to register for CAND 99100 within one week of applying for graduation. Graduate students do not require course permission to register.

**CGT 11000 Technical Graphics Communication (0 cr.)** Class 2, Lab 2. An introductory design course for computer graphics majors. Students develop an understanding of the basic design elements and principles, composition and typography through exercises and projects. The focus is on visual thinking, exploring the relationship between type and image, and developing multiple solutions to a given problem.

#### Technical Communications

**TCM 36000 COMM IN ENGINEERING PRACTICE (- cr.)** Class 1, Recitation 2. P: ENG W131 and COMM R110 or equivalents; junior standing or consent of instructor. The application of rhetorical principles to written and oral communication in the engineering professions. Planning, drafting, and revising professional engineering reports;

planning and delivering oral presentations; organizing information; developing persuasive arguments.

#### University College

##### **UCOL-U 110 First-Year Seminar (1-2 cr.)**

All learning communities share a common set of learning objectives that address issues of transition to the university environment. This first-year seminar is offered in a variety of formats, including a freestanding one credit course, a similar course linked to a general education requirement, and with the transition learning objectives embedded in a departmental introductory course. Learning communities are designed to assist entering students as they form connections with the IUPUI community, including other students, faculty, and advisors in a prospective major. Different learning community formats are sponsored by the various academic units, and the learning community may consist of a single course or a pair of linked courses.

**UCOL-U 210 CAREER CONNECTIONS (- cr.)** This course is designed to assist University College students in the major/career exploration and selection process. Especially targeted are students who are beyond their first year with less than 56 credit hours and who want or need to change majors or to declare a major. The course is designed to help students develop and execute a personalized plan of major and career exploration. This will be encouraged by using the first eight weeks of weekly class meetings to develop an individualized exploration contract and then using the second eight weeks to implement that plan outside of class. Students will also meet individually with the instructor and academic/career advisor. Through the course emphasis on experiential learning, students will be making connections with people, activities, and resources that will facilitate a more realistic approach to major/career decision making.