

COURSE DESCRIPTIONS

The course descriptions included in this booklet are those that are most appropriate for a majority of new students. This booklet does not include all courses offered at IUPUI. It is meant to be used as a companion piece with the IUPUI Campus Bulletin and the Schedule of Classes to aid new students in planning their first-semester courses on campus.

Important

Pay close attention to the departmental prefix, i.e., CLAS, ENG, HPER, JOUR, SWK. You must know this information for each course when you register. Your advisor will list this departmental prefix on your Academic Program Plan before you register.

Instructions for Reading Course Descriptions

The first lines of a course description identify the course number, the name of the course, and the credit hours awarded for one semester. Please be aware that not every course listed is offered each semester. Check the Schedule of Classes or OneStart for course offerings by semester.

Here are the meanings of some abbreviations you will see in the course descriptions:

P: = Prerequisite(s) needed before you enroll in the course.

C: = Corequisite(s) or courses that must be taken at the same time.

Locating Course Descriptions

Courses at the 100 and 200 levels are undergraduate courses and are most commonly taken by freshmen and sophomores. Another good source for course information is the IUPUI Campus Bulletin.

The course descriptions are listed alphabetically by each department. This follows the format used in the Schedule of Classes. Some courses may not be offered every semester or during the summer sessions. Check a current copy of the Schedule of Classes or see an advisor to verify availability. Course descriptions also appear in the IUPUI Campus Bulletin, which is available online (<http://www.bulletin.iupui.edu>).

Online Course Descriptions

You can now find descriptions of most IUPUI courses online. Through OneStart, you can access course descriptions for all courses offered at IUPUI. Go to <https://onestart.iu.edu>; under “Registration and Classes,” click on “Course Descriptions.”

Aerospace Studies (AERO)

The courses in this section are taught by the Air Force ROTC Department in Bloomington. You should confirm course information by calling (812) 855-4191.

A101-A102 The Air Force Today I-II (2-2 cr.)

The format for this course includes one 50-minute lecture and one 50-minute leadership lab per week. Simultaneous enrollment in A201 is allowed. This course centers on the Air Force in the contemporary world through a study of the total force structure, strategic offensive and defensive forces, general purpose forces, and aerospace support forces. No tuition is charged for this course and no military obligation is incurred. Typical weekly assignment is one chapter. Texts provided by the Air Force ROTC.

A201 The Development of Air Power I (2 cr.)

The format for this course includes one 50-minute lecture/instructor-guided discussion and one 50-minute leadership lab per week. Simultaneous enrollment in A101 is allowed. This course covers the history of air power from the first balloons and dirigibles through World War II. No tuition is charged for this

course and no military obligation is incurred. Typical weekly assignment is one chapter. Texts provided by the Air Force ROTC.

A202 The Development of Air Power II (2 cr.)

The format for this course includes one 50-minute lecture/instructor-guided discussion and one 50-minute leadership lab per week. Simultaneous enrollment in A102 is allowed. This course is a continuation of the history of air power from World War II to the present, including the peaceful employment of U.S. air power in relief missions and civic action programs. No tuition is charged for this course and no military obligation is incurred. Typical weekly assignment is one chapter. Texts provided by the Air Force ROTC.

African American Studies (AFRO)

A150 Survey of the Culture of Black Americans (3 cr.)

An introduction to the life and experience of Africans in the United States, utilizing resources from history, literature, and the social sciences.

A255 The Black Church in America (3 cr.)

This course discusses the history of the black church from slavery to the present with emphasis on the church's role as a black social institution, religious attitudes expressed in songs and sermons, and political activities exemplified in the minister-politician.

American Sign Language (ASL)

A131-A132 Intensive Beginning American Sign Language I-II (5-5 cr.)

Intensive introductory sequence of language courses. Recommended for students with prior experience in American Sign Language or for prospective majors in interpreting. Emphasis on developing basic conversational skills as well as awareness of deaf culture.

American Studies (AMST)

A103 Topics in American Studies (1–3 cr.)

Interdisciplinary consideration of various American studies topics; sometimes coordinated with symposia or conferences sponsored by the IUPUI Center for American Studies. A103 may not be counted as credit toward an American studies minor.

Anthropology (ANTH)

A103 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.)

A104 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 those potentials. (Not open to students who have taken A304.)

A201 Survey of Applied Anthropology (3 cr.)

A survey of such issues in applied anthropology as cultural resource management, community development, cross-cultural communication, third world development, museum studies, archaeological ethics, and the impact of human diversity on health care, education, and social problems.

Arabic (NELC)

A117-A118-A119 Basic Arabic I-II-III (3-3-4 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.

A200-A250 Second-Year Arabic I-II (3-3 cr.)

P: A131-A132. Grammar, reading, composition, conversation, and translation using materials from classical, medieval, and modern literary Arabic.

Architectural Technology (ART)

11700 Construction Drafting and CAD (3 cr.)

P: high school geometry or equivalent. Introduction to drafting and CAD fundamentals with emphasis on architectural and civil engineering topics. Development of basic drafting skills using orthographic projections, auxiliary views, pictorial drawings, and drafting conventions. One lecture hour and four lab hours per week.

12000 Architectural Presentation (3 cr.)

Techniques for production of presentation drawings for a client. Three-dimensional drafting techniques, including different perspective drawing techniques and other 3-D drafting methods are covered. The course also includes rendering; shades and shadows; and coloring using pen, pencil, and color markers. Focus is on learning presentation methods rather than learning rendering techniques. One lecture hour and four lab hours per week.

15500 Residential Construction (3 cr.)

P: ART 117 or equivalent; ART 165 or equivalent; and CNT 105. Wood frame construction through a semester project requiring planning, preliminary, and working drawings. Outside lab requirements are required. Two lecture hours and three lab hours per week.

16500 Building Systems and Materials (3 cr.)

Study of the structural systems used in structures. The study of properties, uses, and methods of incorporation of various construction materials in modern construction. Two lecture hours and three lab hours per week.

Art and Design—Herron (HER)

A204 The Visual Book (3 cr.)

Exploration of the communicative possibilities of the book format through lecture, studio projects, and field trips. Introduction to letterpress, binding, and typographic concerns.

A261 Introduction to Computer Imagery (3 cr.)

An introductory course providing hands-on learning experiences in using the Macintosh computer and Adobe Photoshop, a pixel-based paint and image-editing software package, to create, scan, and manipulate images.

A291 Bookbinding (3 cr.)

A beginning course in bookbinding dealing with traditional bookbinding and box-building techniques. Students are instructed on use of tools and materials. Projects are designed to encourage exploration and experimentation of book structure.

C204 Beginning Ceramics, Hand Building (3 cr.)

Beginning studio introduction to hand building, glazing, and firing of clay as an expressive studio medium applicable to contemporary and sculptural concepts.

C206 Beginning Ceramics, Wheel Throwing (3 cr.)

Focus on wheel throwing as an expressive tool within an overall ceramic experience. Clay vessels will be utilized to develop an understanding of glazing and firing techniques. Traditional forms will be used to expand sensitivity to material, history, and wheel throwing techniques.

C208 Intermediate Wheel Throwing (3 cr.)

Designed for non-art majors who wish to pursue wheel throwing. Emphasis is on developing skill through an exploration of more complex forms and investigating advanced embellishment and firing techniques.

P: C206

E101-E102 Beginning Drawing I-II (3-3 cr.)

Introduction to drawing, exploring a wide range of techniques. Study from nature and still-life objects and sketching from the model. E101 and E102 will not count toward a Herron degree.

E105-E106 Beginning Painting I-II (3-3 cr.)

Introduction to the techniques of painting. Aspects of pictorial composition; wide range of media. Painting from still life and live model. E105 and E106 will not count toward a Herron degree.

E109 Color and Design for Non-Art Majors (3 cr.) Introduction to basic design and color theory through the manipulation of imagery in two-dimensional media. Equal emphasis on thought process and manual skills. Will not count toward a Herron B.F.A. degree.

E111 Metalsmithing and Jewelry Design (3 cr.)

Introduction of metalsmithing techniques used to create fine art jewelry and small metal sculpture. Course will cover metalsmithing processes, materials, tools and equipment as well as historic and contemporary jewelry design. Topics include; sawing, cold-connecting sheet metal, stone setting, soldering, craftsmanship and studio safety. Will not count toward a Herron B.F.A. degree.

E113 Introduction to Sculpture (3 cr.)

Introduction to three dimensional art in a sculptural concept with exposure to various related materials, techniques, and processes.

E201 Photography I for Non-Art Majors (3 cr.)

Introduction to the basics of black-and-white fine art photography for non-art majors only. Students provide their own fully manual 35mm camera. Will not count toward a Herron B.F.A. degree.

E205 Portrait Painting I (3 cr.)

Includes the study of features and basic construction of the head. Exploration of various media. Emphasis on rendering flesh tones, form, and colors with respect to the model. Will not count toward a Herron B.F.A. degree.

E214 Visual Learning—From the Simpsons to the Guerilla Girls (3 cr.)

Visual Learning: From the Simpsons to the Guerrilla Girls. Designed for the novice, this class facilitates viewers in interpreting powerful images from our contemporary world, starting with art and moving across popular culture and disciplines. Classes involve both creating and interpreting art. Essential questions help students examine how visual images impact their daily lives.

H100 Art Appreciation (3 cr.)

Not counted for credit toward the B.F.A. and B.A.E. degrees nor toward the minor in art history. An understanding and appreciation of outstanding works of art through analysis of artistic purpose and technique, and knowledge of historical style and subject matter.

H101-H102 History of Art I-II (3-3 cr.)

Visual analysis of selected works from the history of Western art. First semester defines historical terms, processes, and principles of architecture, painting, sculpture, and graphics; covers history of art from Prehistoric to Renaissance periods. Second semester examines problems of style and subject matter from Early Renaissance to the twentieth century. Required for all Foundation Program students.

H103 Introduction to Contemporary Art (3 cr.)

This course introduces the vocabulary of visual arts in the twentieth century. Major movements are briefly introduced with characteristic works. Painting, sculpture, photography, printmaking, computer graphics, video, and environmental and performance art in the past three decades are the focus. Will not count toward the B.A. in art history. Required for all Foundation Program students.

R201 Visual Research (Variable Title)

(3 cr.) Specially arranged instruction within specialized subject area. May take form of field experience, in which case there will be close collaboration between specialized faculty member and the work supervisor, who will jointly evaluate performance.

Astronomy (AST)

A100 The Solar System (3 cr.)

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 discusses astronomical instruments and celestial coordinates.

A105 Stellar Astronomy (3 cr.)

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.

A130 Short Courses in Astronomy (topic varies) (1 cr.)

Five-week short courses on a variety of topics in astronomy. Examples of topics include the big bang, black holes, astronomy from your backyard, how to see stars, and the birth and death of our sun. A130 does not fulfill any science requirements for School of Science students.

Biology (BIOL)

Courses for the Nonmajor

N100 Contemporary Biology (3 cr.)

Selected principles of biology with emphasis on issues and problems extending into the everyday affairs of students.

N107 Exploring the World of Animals (4 cr.)

This course is designed to introduce students to the major biomes of the world. Discussions, supplemented by films, will focus on the animals and plants associated with each biome as well as the environmental and ecological features that make each biome unique. The lecture meets twice a week for 50 minutes, and the lab meets twice a week for 1 hour and 50 minutes.

N108 Plants, Animals, and the Environment (4 cr.)

The goal of the course is to facilitate science learning and understanding for those students interested in teaching introductory science at the elementary and middle school level. It is also intended for those students with a general interest in plants and animals. The lecture meets twice a week for 75 minutes, and the lab meets once a week for 1 hour and 50 minutes.

N200 The Biology of Women (3 cr.)

This course examines the biological basis for bodily functions and changes that take place throughout the lives of females.

N212 Human Biology (3 cr.)

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. Equivalent to PU BIOL 201.

N213 Human Biology Laboratory (1 cr.)

P or C: N212. Accompanying laboratory for N212.

N214 Human Biology (3 cr.)

P: N212. Continuation of N212. Equivalent to PU BIOL 202.

N215 Human Biology Laboratory (1 cr.)

P or C: N214. Accompanying laboratory for N214.

N217 Human Physiology (5 cr.)

Lectures and laboratory work related to cellular, musculoskeletal, neural, cardiovascular, gastrointestinal, renal, endocrine, and reproductive function in humans. Equivalent to IU PHSL-P215.

N222 Special Topics in Biology (1–3 cr.)

A variable-topic course dealing with current topics in biology. In a given semester, a topic such as disease, genetics, the environment, etc., will be dealt with as a separate course.

N251 Introduction to Microbiology (3 cr.)

P: one semester of general chemistry or life science. The isolation, growth, structure, functioning, heredity, identification, classification, and ecology of microorganisms; their role in nature and significance to humans.

N261 Human Anatomy (5 cr.)

Lecture and laboratory studies of the histology and gross morphology of the human form, utilizing a cell-tissue-organ system-body approach. Equivalent to IU ANAT-A215.

Courses for the Major

K101 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.

K103 Concepts of Biology II (5 cr.)

P: K101. An introductory biology course emphasizing structure, physiology, development, diversity, and behavior in animals; evolution and ecology of plants and animals.

Biomedical Electronics Technology (BMET)

10500 Introduction to Biomedical Electronics Technology (1 cr.)

Students will dive into the field without getting wet. To explore BMET, participants will monitor BioMedTalk, an e-mail chat group used by biomedical electronics technicians as a forum for discussion of equipment-related issues and concerns. Students will discuss and research posted topics. Samples of topics posted in the past include hospital cell phone use and medical equipment interference from children's toys and games. Course will include a visit to area hospital BMETs.

Business (BUS)

A100 Basic Accounting Skills (1 cr.)

Covers the process of recording economic events that underlie financial statements. The basics of generally accepted accounting principles are introduced as they affect financial statements. The fundamental aspects of managerial accounting are related to planning, controlling, and decision making in business organizations. Different cost definitions are developed, and cost-volume-profit analysis is introduced as an important financial planning and control skill.

A186 Foundations of Accounting (3 cr.)

Addresses the role of accounting in society and business with a special emphasis on fundamental concepts and the basic design of accounting systems. This course is intended for non-business majors who are interested in learning about how accounting affects their lives and businesses.

A200 Foundations of Accounting (Nonmajors) (3 cr.)

P: sophomore standing. Addresses the role of accounting in society and business with a special emphasis on fundamental concepts and the basic design of accounting systems. Course is intended for non-business majors who are interested in learning about how accounting affects their lives and businesses. Credit not given for both A200 and A201 or A202.

A201 Introduction to Financial Accounting (3 cr.)

P: A100; and sophomore, junior, or senior standing. 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. First part of the course introduces students to the financial accounting environment, financial statements, the accounting cycle, and the theoretical framework of accounting measurement. Second part of the course covers the elements of financial statements, emphasizing mechanics, measurement theory, and the economic environment. Credit not given for both A 200 and A 201.

A202 Introduction to Managerial Accounting (3 cr.)

P: A100; and sophomore, junior, or senior standing. 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. Credit not given for both A200 and A202.

A204 Introduction to Financial Accounting: Honors (3 cr.)

P: A100; and sophomore, junior, or senior standing. The course covers the concepts and issues associated with corporate financial reporting. Particular emphasis is placed on understanding the role of financial accounting in the economy and how different accounting methods affect the financial statement.

F200 Foundations of Financial Management (3 cr.)

Course introduces students to basic decision models of financial management and prepares them to take an active role in financial decision making in the workplace. Topics include financial analysis, cash and working capital management, time value of money, risk management, and planning for growth.

F260 Personal Finance (3 cr.)

Financial problems encountered in managing individual affairs, family budgeting, installment buying, insurance, home ownership, and investing in securities. No credit for Kelley School of Business students when F260 is taken concurrently with or after the integrative core.

K201 The Computer in Business (3 cr.)

Introduction to the role of computers and other information technologies in business with emphasis on microcomputer applications. Provides instruction in both functional and conceptual computer literacy. Experimental exercises include learning a Windows-based spreadsheet (Excel), a relational database (Access), electronic mail, and Internet navigation tools. Hands-on labs emphasize application of these learned skills to solve a variety of business problems. The lectures focus on the use and application of technology (hardware, software, storage/multimedia, Internet history, Internet in business, database management systems, and security/privacy of data in this information age).

K204 The Computer in Business: Honors (3 cr.)

P: section authorization required; and sophomore, junior, or senior standing. Introduction to the role of computers in business with emphasis on microcomputer applications. Experimental exercises include learning Windows-based spreadsheets, database applications, electronic mail, and Internet navigation tools. The lectures focus on the use and application of technology (hardware, software, networks, databases) and integrate current management topics (business applications, systems development, data management, computer ethics).

L100 Personal Law (3 cr.)

Effects of law on everyday lives. May include such topics as family law, criminal offenses and traffic violations, personal injury and property damage claims, employee rights, landlord-tenant law, consumer rights, debt collection, selected real and personal property issues, wills and estates, selected contract law issues, and forms of business organization (partnership, proprietorship, and corporation). No credit for Kelley School of Business students when taken concurrently with or after the integrative core.

L203 Commercial Law I (3 cr.)

P: sophomore standing. The purpose of this course is to examine the legal framework for business activity and explore how to manage that framework in a rapidly changing legal environment. The areas of the law studied include contracts, torts, employment law, intellectual property, forms of business enterprises, and the legal regulation of business competition. Credit not given for both L 201 and L 203.

L204 Commercial Law I: Honors (3 cr.)

P: section authorization. Includes the nature of law, torts, contracts, the sale of goods, and the legal regulation of business competition. Credit not given for both L 203 or L201 and L204.

M200 Marketing and Society: A Look at Roles and Responsibilities (3 cr.)

P: sophomore, junior, or senior standing. M200 is offered for students pursuing a Certificate in Business. The course will acquaint students with basic marketing concepts, terminology, and applications. The use of marketing in a variety of industries will be explored. The course will also aid students in becoming a more aware and intelligent consumer. Assignments and assessment will occur primarily through Oncourse, a Web-based educational support system. Lectures may be delivered via classroom, television, or the Web. This course will not be counted toward a business degree or minor.

M226 Personal Selling Techniques (3 cr.)

P: sophomore, junior, or senior standing. This course is designed in response to the developing need to have a sales-related course designed for non-business majors. It is recognized that people in every profession have to communicate ideas, plans, proposals, etc. in a persuasive manner. Five basic areas will be covered in the course: (1) the selling process, (2) the investigative stage, (3) the demonstration of capability stage, (4) the commitment stage, and (5) the designing of sales models to improve performance results. No credit for Kelley School of Business students when taken concurrently with or after the integrative core.

P200 Foundations of Production Management (3 cr.)

Introduces the student to the basic ideas and concepts that make up the field of operations and supply chain management; prepares the student to take an active role in decision-making operations in his or her workplace. The course will acquaint the student with basic operations management concepts and terminology, including topics such as process and quality management, resource planning and forecasting, inventory and capacity management, and the JIT/Lean operations concept.

W200 Introduction to Business and Management (3 cr.)

P: sophomore, junior, or senior standing. Business administration from the standpoint of the manager of a business firm operating in the contemporary economic, political, and social environment. This course will not be counted toward a business degree or minor.

X100 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. No credit for Kelley School of Business students when taken concurrently with or after the integrative core.

X103 Business Learning Community (1 cr.)

Designed to assist students to be successful at the university and develop skills and competencies that will enable them to perform well in courses offered by the Kelley School of Business. Each learning community has an instructional team that is led by a faculty member and includes a student mentor, an academic advisor, and a librarian. The instructional team structures the learning environment to provide participants with as much support as possible.

X105 Business Administration Introduction: Honors (3 cr.)

P: section authorization. Business administration from the standpoint of the manager of a business firm operating in the contemporary economic, political, and social environment. No credit for Kelley School of Business students when taken concurrently with or after the integrative core.

X203 Independent Study in Community Service Learning (1–3 cr.)

P: authorization required and sophomore standing. Designed to help students develop research and writing skills and understand the foundations of community service and service learning. Students plan and carry out a project for a local non-profit organization. All students must attend a one-hour orientation meeting at a date to be specified before the semester begins. Credit not given for both X103 and X203.

X204 Business Communications (3 cr.)

P: ENG-W131 with C or better. Theory and practice of written communication in business; use of correct, forceful English in preparation of letters, memoranda, and reports.

X220 Career Perspectives (2 cr.)

P: sophomore, junior, or senior standing. Assists students in constructing their academic programs and postcollege plans. Students are involved in group interaction with managers, senior executives, faculty,

junior or senior student mentors, alumni, and community leaders. Students use data from tests and exercises to consider career options as they relate to such topics as globalization, total quality management, workforce diversity, leadership theory, and volunteerism.

Z200 Introduction to Human Resource Practices (3 cr.)

Course provides a basic overview of human resource practices and principles which all managers need to be aware of in today's business environment. Topics include: recruitment and selection, performance appraisals, diversity, compensation, and employee discipline.

Chemistry (CHEM)

C100 World of Chemistry (3 cr.)

How molecules are built, react, and affect our lives. Lectures, demonstrations, and discussions. For students desiring only one semester of chemistry. Does not count toward any degree requirements in the School of Science.

C101 Elementary Chemistry (3 cr.)

P: at least one semester of high school algebra. Usually taken concurrently with C121. Essential principles of chemistry, atomic and molecular structure, bonding, properties and reactions of elements and compounds, stoichiometry, solutions, acids, and bases. For students who are not planning careers in the sciences and those with no previous course work in chemistry. Lecture and recitation.

C105 Principles of Chemistry I (3 cr.)

P: two years of high school algebra and one year of high school chemistry. Usually taken concurrently with C125. A placement examination will be given in the first week of class. Principles of inorganic and physical chemistry emphasizing physical and chemical properties, atomic and molecular structure, chemical bonding, and states of matter. Lecture and recitation.

C106 Principles of Chemistry II (3 cr.)

P: C105 or equivalent. Continuation of C105. Usually taken concurrently with C126. Topics include condensed phases, solution chemistry, thermodynamics, equilibrium, and kinetics. Lecture and recitation.

C110 The Chemistry of Life (3 cr.)

P: high school chemistry recommended. Optional laboratory C115. 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 related topics.

C115 Laboratory for The Chemistry of Life (2 cr.)

P or C: C110. Laboratory work illustrating topics covered in C110.

C120 Laboratory for The World of Chemistry (2 cr.)

P or C: C100. A hands-on approach to the topics discussed in C100.

C121 Elementary Chemistry Laboratory I (2 cr.)

P or C: C101. Introduction to the techniques and reasoning of experimental chemistry. Emphasis is given to the study of physical and chemical properties of inorganic compounds.

C125 Experimental Chemistry I (2 cr.)

P or C: C105 or equivalent. Laboratory work illustrating topics covered in C105.

C126 Experimental Chemistry II (2 cr.)

P: C105 and C125. P or C: C106 or equivalent. Lecture and laboratory.

S125 Honors Experimental Chemistry I (2 cr.)

P or C: C105 or equivalent. Laboratory work illustrating topics covered in C105.

S126 Honors Experimental Chemistry II (2 cr.)

P or C: C106 or equivalent. Laboratory work illustrating topics covered in C106. Lecture and laboratory.

Chinese (EALC)

C117-C118-C119 Basic Chinese I-II-III (3-3-4 cr.)

Introductory language course in Chinese with emphasis on expression, grammar, reading, script, elementary composition, and culture.

C201-C202 Second-Year Chinese I-II (3-3 cr.)

Both spoken and written aspects stressed.

Classical Studies (CLAS)

C205 Classical Mythology (3 cr.)

Introduction to Greek and Roman myths, legends, and tales, especially those that have an important place in the Western cultural tradition.

C209 Medical Terms from Greek and Latin (2 cr.)

Basic vocabulary of some 1,000 words, together with materials for formation of compounds, enables students to build a working vocabulary of several thousand words. Designed for those intending to specialize in medicine, dentistry, or microbiology. Does not count toward the foreign language requirements or the distribution requirement.

L131-132 Latin I-II (5-5 cr.)

P for L132: L131 or placement. Fundamentals of the language; develops direct reading comprehension of Latin.

Communication Studies (COMM)

C108 Listening (1 cr.)

P: placement in ENG-W131. Designed to increase listening efficiency by improving comprehension and listening skills.

C180 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.

C201 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 people and within groups, organizations, and societies.

C223 Business and Professional Communication (3 cr.)

P: R110 or equivalent. Preparation and presentation of interviews, speeches, and oral reports appropriate to businesses and professional organizations; group discussion and parliamentary procedure. This is an intermediate skills course with survey characteristics.

C228 Discussion and Group Methods (3 cr.)

Theory and practice of effective participation in and leadership of group, committee, conference, and public discussion; application to information-sharing and problem-solving situations.

C299 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.

G100 Introduction to Communication Studies (3 cr.)

P: placement in ENG-W131. 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 apply theory to practice, thereby learning to become more effective in communicating. This is a good course for students considering a major or minor in communication studies.

G125 Topics in Communication Studies (1–3 cr.)

Select introductory theory and practice in specialized or consolidated areas of communication and theatre not directly covered by current curricular offerings. Topics will vary from one semester to another. Students may enroll in no more than six credit hours under this course number.

M150 Mass Media and Contemporary Society (3 cr.)

A critical overview of the role of electronic mass media in contemporary society. Provides an introduction of such issues as industry structure, organization, and economics; regulation, public interest, and media ethics; impact of programming on individuals; media construction of social institutions; and media issues in the global village.

R110 Fundamentals of Speech Communication (3 cr.)

P: reading placement score of at least 80. Theory and practice of public speaking, training in thought processes necessary to organize speech content for informative and persuasive situations, and application of language and delivery skills to specific audiences. A minimum of six speaking situations.

R224 Parliamentary Procedure (1 cr.)

P: reading placement score of at least 80 and placement in ENG-W131. Modern concepts of parliamentary forms in legislative assemblies and business meetings; practice in the use of parliamentary procedures.

R227 Argumentation and Debate (3 cr.)

Analysis, evidence, and argument in logical discourse; study of debate forms; and practice in argumentative speaking in class, campus, and intercollegiate debate.

T100 Rehearsal and Performance (3–6 cr.)

Emphasizes learning through the preparation and performance of plays and nondramatic literature adapted for performance. Various approaches may include, but are not limited to, performance studies, the study and preparation of a short play, and an original play for young audiences. The various steps and processes involved in the preparation and rehearsal will be based on appropriate theoretical concepts. Students may enroll in no more than six credit hours under this course number.

T130 Introduction to Theatre (3 cr.)

P: reading placement score of at least 80. An introduction to the study of theatre; the wide range of critical, historical, aesthetic, and practical interests necessary to a well-rounded view; emphasis on theatre as an art form and elements of dramatic construction.

T133 Introduction to Acting (3 cr.)

Acting I, a study of the theories and methods of acting, basic techniques, character analysis, interpretation, and projection. Class scenes.

T205 Introduction to Oral Interpretation (3 cr.)

Basic principles of and practice in analysis and reading of selections from prose, poetry, and drama. Public presentation of programs. Lecture and recitation.

Computer Graphics Technology (CGT)**11000 Technical Graphics Communication (3cr.)**

This course is an introduction to the graphic language used to communicate design ideas using CAD. Topics include sketching, multiview drawings, auxiliary views, pictorial views, working drawings, dimensioning practices, and section views. Two lecture hours and two lab hours per week.

11100 Design for Visualization and Communication (3 cr.)

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. Two lecture hours and two lab hours per week.

11200 Sketching for Visualization and Communication (3 cr.)

This course applies fundamental computer graphics concepts of visualization, communication, and creativity within a sketching metaphor. Exercises and projects in graphic theory, problem solving, and sketching skill development provide students with activities that focus on further development within the discipline. A variety of sketching techniques are used to gather critical information and transform data into effective communication instruments. Two lecture hours and two lab hours per week.

11600 Geometric Modeling for Visualization and Communication (3 cr.)

P: CGT 112. Core introductory computer graphics course that provides entry-level experiences in geometric modeling. Students develop geometric analysis and modeling construction techniques and processes to produce accurate computer models for graphic visualization and communication. Two lecture hours and two lab hours per week.

11700 Illustrating for Visualization and Communication (3 cr.)

This foundation course stresses the use of pictorial illustration for visualization and communication. Various projection systems are introduced with discussion focusing on the appropriate use of view and system utilized to accentuate and provide clear communication. A variety of digital tools are used to construct, extract, and render pictorial views using vector and raster tools. Two lecture hours and two lab hours per week.

12000 Electrical and Electronic Drafting (2 cr.)

P: ECET 157. A basic course in electrical and electronic drafting utilizing multiview and isometric drawing, sectioning, and dimensioning drawing and practices. Documentation of design through

schematic diagrams, wiring diagrams, and printed circuit board layout. Application of graphics standards for electronic, power, and industrial control circuitry. One lecture hour and two lab hours per week.

Computer and Information Science (CSCI)

23000 Computing I (4 cr.)

P or C: MATH 163 or MATH 221. History of computing and the impact of computing on daily life. Overview of computer organization: information representation in digital computers and digital logic. Algorithmic approach to problem solving, and elements of data structures: arrays, lists, stacks, and queues. Program development techniques, problem-solving techniques in numerical analysis problems and in nonalgorithmic problems, such as in artificial intelligence.

24000 Computing II (4cr.)

P: CSCI 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.

N100 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 the following courses: CSCI-N100, CIT 106, or BUS-K201.

N201 Programming Concepts (3 cr.)

Summary of basic computing topics; problem-solving techniques and their applications 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.

N207 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.

N241 Introduction to Web Design (3 cr.)

Summary of basic computing topics. Introduction to the Internet and the World Wide Web. Emphasis on standard protocols, levels of connectivity, generating HTML documents with standard text-editing tools, and basic UNIX skills. Lecture and laboratory.

Computer and Information Technology (CIT)

10600 Using a Personal Computer (3 cr.)

This course is an introduction to word processing, spreadsheets, database development, and graphical presentation software. The course includes instruction in the use of Windows operating system, the Internet, and e-mail. Applications are taught through the use of problem-solving tutorial assignments, projects, and tests. The course is available online or on campus. Two lecture hours and two lab hours per week, or three lecture hours per week.

12000 Quantitative Analysis I (3 cr.)

P: MATH 111. An introduction to both qualitative and quantitative problem solving featuring a systems approach that relies on graphic models to describe such concepts as relations, sequences, and logic patterns. Course includes a brief introduction to set theory, logic, and descriptions of data.

14000 Programming Constructs Laboratory (3 cr.)

P: CIT 106. This course is an introduction to problem-solving techniques, program design and development, programming logic, object-oriented terminology, and concepts. The course covers utilization of both mainframe and personal computers using Visual Basic. Two lecture hours and two lab hours per week.

20600 Advanced Computer Applications and Business Presentations (3 cr.)

P: CIT 106. This course will cover the advanced topics of office applications in Word, Excel, PowerPoint, and Access, as well as establishing desktop publishing skills using Publisher. There will be a strong emphasis on Web-driven applications. Topics include Web forms, data-driven documents, financial functions, worksheet queries, Web spreadsheets, Web databases, interactive OLE, macros, graphics, VBA, brochures, newsletters, business forms, and relational databases.

23300 Computer Hardware/Software Architecture (3 cr.)

P: CIT 112. This course presents a detailed investigation of computer hardware and software. Looking at hardware and software components along with several operating systems, students should enhance their knowledge of the interrelations between these components. In addition, through the use of programming examples, students will learn about the structure of the microprocessor and microcomputer basics and gain detailed knowledge of computer components and their functions. By the end of the course, students will be able to identify, describe, and discuss the concepts of computer structure, architecture, and performance. Students will also apply knowledge gained in discussing and solving problem-based scenarios.

E101 Using Technology at IUPUI (3 cr.)

This hands-on, interdisciplinary course will provide an introduction to technology at IUPUI, integrating applications, and hardware related to student success. Students will learn how to use available education technology at home and school and study technology issues related to computer and media literacy. Topics include access, resources, accounts, computer applications, and security. This course is for non-CIT majors only.

E123 Internet Skills (3 cr.)

This hands-on course will provide an introduction of the skills necessary to successfully use the Internet. Students will explore such topics as global communications, successful searching techniques, how to stay safe while using the Internet, using the Internet as a research tool, and exploring other Web services like chatting, Instant Messenger and Web site hosting. Also, the student will be instructed on how to choose an Internet service provider. This course is for non-CIT majors only. Two lecture hours and two lab hours per week, or three lecture hours per week.

E133 Computer Troubleshooting (3 cr.)

The goals of this course are to introduce the concepts of troubleshooting basic and common computer hardware component failures as well as the installation and configuration of the software that drives these components. Using discussion, laboratory demonstrations, and exercises, a detailed knowledge of computer hardware and their drivers should be mastered. This course is for non-CIT majors only.

E201 Information Technology for the Consumer (3 cr.)

This course will provide a decision framework for the overwhelming variety of choices created by the accelerating pace of technological innovation in information technology. Students will learn how to make cost-effective choices among the dazzling array of hardware (e.g., personal digital assistants), software, and service alternatives (e.g., broadband and wireless) available in today's marketplace as well as using sources of information for future decisions. This course is for non-CIT majors only.

E203 Desktop Publishing (3 cr.)

This hands-on, interdisciplinary course will provide an introduction to desktop publishing technology, integrating application and hardware. Students will learn how to use desktop publishing to produce flyers, newsletters, brochures, business forms, Web forms, and original graphics. Skills are developed through relevant problem-solving tutorial assignments, projects, and tests. This course is for non CIT majors only.

E235 Home and Small Business Networking (3cr.)

This hands-on course will provide an introduction to home and small business networking. Students will learn how to set up, install, maintain, and secure a network within a small business, school, or home environment.

E301 Protecting Yourself in Cyberspace (3 cr.)

This interdisciplinary course will provide an introduction to the importance of protecting a computer in cyberspace. Students will learn the importance of information assurance and security, and how to apply security in a small business, school, and home environments. Students will study security issues as it relates to Web sites, networks, and data protection. This course is for non-CIT majors only.

Computer and Information Technology Certificate (CIT)

11200 Information Technology Fundamentals (3 cr.)

P: consent of instructor. This course provides students with a working knowledge of the terminology, processes, components of information systems, and the application development process. Students will receive hands-on experience with the Internet and the World Wide Web.

21200 Web Site Design (3 cr.)

P or C: CIT 112. This course is designed to give students basic understanding of the proper process to be used for developing an effective commercial Web site. This course will cover the full development cycle, including analysis, design, and construction components.

Computer Integrated Manufacturing Technology (CIMT)

22400 Production Planning and Control (3 cr.)

P: MATH 151 or equivalent. Preproduction considerations of the most economical methods, operations, and materials for the manufacture of a product. Includes planning, scheduling, routing, and detailing of production control procedures.

Construction Engineering Management Technology (CEMT)

10400 Fundamentals of Surveying (3 cr.)

P or C: MATH 154 or equivalent. Fundamental concepts and practical applications related to measurement of vertical and horizontal distances and angles using the tape, level, transit, theodite, and EDM (total stations, electronic workbooks, laser levels, etc.). Computations of grades, traverses, areas, and curves. Basic concepts of topography and its uses. Identification of contours and drawing of topographical maps. Two lecture hours and three lab hours per week.

16000 Statics (3 cr.)

P: MATH 151 or MATH 154 or equivalent. P or C: PHYS 218. Forces acting on bodies at rest, including coplanar, concurrent, and nonconcurrent systems. Includes centroids, moments of inertia, and friction.

Construction Technology (CNT)

10500 Introduction to Construction Technology (3 cr.)

A survey of the opportunities available within the construction industry. The laboratory is utilized to learn the basics of computers, the library, e-mail systems available on campus, and the basics of word

processing, spreadsheets, and computer programming. No previous computer knowledge is necessary. Two lecture hours and two lab hours per week.

11000 Construction Accounting (3 cr.)

P: ART 165 and CNT 105. Accounting fundamentals as utilized in the construction industry with a special emphasis on basic design of construction cost accounting systems used to manage a construction company. Use of construction cost indices for labor and materials as well as use of construction accounting for estimating cost and bidding purposes. Use of accounting management software as appropriate. Two lecture hours and two lab hours per week.

28000 Quantity Survey (3 cr.)

P or C: ART 155 or CET 275 or consent of instructor. A study of methods to estimate quantities of materials required in construction. Practice in making quantity surveys. Two lecture hours and three lab hours per week.

Economics (ECON)

E101 Survey of Current Economic Issues and Problems (3 cr.)

For nonmajors only. Basic economic principles applied to social issues and problems. The course is redesigned to include interactive learning with the incoming freshman in mind. Some of the topics covered include crime and drugs, environment, discrimination, education, inflation, and international trade.

E102 Economics of Personal Finance (3 cr.)

Hands-on personal finance course especially for liberal arts majors. This course will teach how to keep your money, manage it better, and maybe make more.

E201 Introduction to Microeconomics (3 cr.)

P: sophomore standing. E201 is a general introduction to microeconomic analysis, including the methods of economics, scarcity of resources, interaction of consumers and business in the marketplace in order to determine a price, and how the market system places a value on the factors of production.

E202 Introduction to Macroeconomics (3 cr.)

P: E201. An introduction to macroeconomics that studies the economy as a whole, including the levels of output, prices, and employment; how they are measured and how they can be changed; money and banking; international trade; and economic growth.

E270 Introduction to Statistical Theory in Economics (3 cr.)

P: M118. Analysis and interpretation of statistical data in business and economics. Discussion of frequency distribution, measures of central tendency and variability, statistical inference, hypothesis testing, correlation, regression, and time series.

Education (EDUC)

F200 Examining the Self as Teacher (3cr.)

Designed to help students make career decisions, better conceptualize the kind of teacher they wish 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.

W201 Using Computers in Education (1 cr.)

P: required of all students pursuing teacher education. Introduction to instructional computing and educational computing literature. Hands-on experience with educational software utility packages and commonly-used microcomputer hardware.

Electrical and Computer Engineering Technology (ECET)

10700 Introduction to Circuit Analysis (4 cr.)

P or C: MATH 153. A study of voltage, current, power, and resistance; and Ohm's law, Kirchhoff's circuit laws, and network theorems. Circuit studies cover electronic devices: diodes, transistors, and operational amplifiers. Physical features of capacitance and inductance and their effects in transient circuits and in alternating current circuits. The laboratory provides experience with electronic instrumentation and circuit simulation. Three lecture hours and two lab hours per week.

10900 Digital Fundamentals (3 cr.)

P or C: MATH 111 or higher, or consent of instructor. A study of logic gates, binary arithmetic codes, Boolean algebra, mapping, adders, comparators, decoders, encoders, multiplexers, and demultiplexers. Small Scale (SSI) and Medium Scale (MSI) integrated circuits and programmable logic devices are used to develop combinational and sequential circuits. Two lecture hours and two lab hours per week.

11600 Electrical Circuits (4 cr.)

P or C: MATH 153. A study of direct current and alternating current circuits. This course covers circuit components R, L, and C; voltage; current; power; Ohm's law; Kirchhoff's laws; series and parallel circuits; electrical measurements; sinusoidal voltages; impedances; transformers; motors; polyphase systems, and the National Electrical Code. This course is a service course offered for non-ECET majors. Three lecture hours and two lab hours per week.

Emergency Medicine (EMER)

E201 Emergency Medical Technician Basic I (3 cr.)

This course focuses on the well-being of the EMT, basic patient assessment and airway management, and special considerations for the pediatric and geriatric patient.

E202 Emergency Medical Technician Basic II (3 cr.)

The content of the course covers specific medical emergencies, trauma, and basic pharmacology.

Engineering, Freshman (ENGR)

19500 Introduction to the Engineering Profession (1 cr.)

This course introduces students to the engineering profession and campus resources. The course is designed to help students develop essential communication and thinking skills along with the study and time-management skills needed for success in studying engineering. Collaborative techniques used in engineering practice are utilized.

19600 Introduction to Engineering (3 cr.)

C: MATH 154 or MATH 159 or equivalent. Course provides 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. Also introduces the students to standard computer application software and university network and software resources. Two lecture hours and two lab hours per week.

19700 Introduction to Programming Concepts (2 cr.)

C: MATH 163. 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, arrays, and elementary concepts in mathematical programming. Examples, homework, and applications of programming concepts make extensive use of the C programming language. One lecture hour and two lab hours per week.

English (ENG)

G009 Intermediate Aural/Oral Skills for ESL Students (2–4 cr.)

Intensive practice of basic speaking and pronunciation skills as well as listening comprehension skills to develop language proficiency required for study at the university level. Students will make extensive use of the Multimedia Language Resource Center.

G010 ESL for Academic Purposes I (4 cr.)

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.

G011 ESL for Academic Purposes II (4 cr.)

This course provides practice in and clarification of difficult grammatical structures; improves spoken language skills emphasizing group discussion; focuses on pronunciation skills such as word stress, intonation, and difficult sounds; encourages development of reading strategy skills such as skimming, scanning, and summarizing; and augments the student's understanding of American culture and functional language use.

G012 Listening and Speaking for Academic Purposes (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. Provides community involvement to help students better understand American culture and language use. Reading skills and vocabulary development for the academic context are emphasized.

G015 Pronunciation Skills (1 cr.)

This course focuses on American English pronunciation and stresses active learner involvement in small groups and self-tutorials. Practice in a contextualized format includes drills and multimedia listening and speaking activities. Class work emphasizes stress and intonation patterns and vowel and consonant production. Individualized instruction focusing on specific needs is a component of the course.

G104 Language Awareness (3 cr.)

A nontechnical introduction to the study of linguistics, this course takes an interdisciplinary approach to language behavior. Particular attention is paid to cultural, social, and psychological aspects of language use. Topics vary and may include language origin, child language acquisition, gender and language, dialects, and slang, among others.

G204 Rhetorical Issues in Grammar and Usage (3 cr.)

The course will examine the ways in which the words writers and speakers choose impact readers and listeners by analyzing readings and speeches. It will consider the role of "correctness" in discourse communities, and the connections between writings and usage guides. Students will analyze their own use of language by writing short papers and by working with papers of their choice that they have written in the past. The goal of the course will be to foster students' conceptualization of "grammar" not as a rigid set of rules, but as a tool that allows writers and speakers rich flexibility of expression.

G205 Introduction to the English Language (3 cr.)

An introduction to the English language and the principles and methods of linguistics. It is designed to be the first course in English linguistics; thus, no prior knowledge of linguistics is assumed. The goals of the class are, first and foremost, to explain the basic linguistic components of English (sound system, word structure, sentence structure, etc.) and, second, to discuss the application of this knowledge to such areas of inquiry as language acquisition, writing, and literature. The course should ultimately result in teaching students how to think about English rigorously and technically.

G206 Introduction to Grammar (3 cr.)

This course is designed to be the first course in the study of the English language from a linguistic perspective. The subjects covered include the systematic way in which information is encoded in discourse, the analysis of functions of speech, the structure of conversation, and the comparison of spoken and written language. Students will examine how English varies according to geographic region, ethnic background, socioeconomic status, and gender. The course also addresses the question of how language variety is viewed in our society.

L105 Appreciation of Literature (3 cr.)

L105 may be unlike literature courses taken in high school or other universities. In this course we do not write essays, conduct research, or study individual authors and different literary periods. We study you—you and your relationship to the text you read. By better understanding your own reading process and the factors which influence it, you can better understand how to approach a literary work and derive from it the meaning and enjoyment which make it a significant work of art. No one reads in a vacuum. Your reading will be largely influenced by your background: where you come from, who you know, what you like, and what you have already been taught. We will consider those influences as we discuss literature and encourage you to share your own personal perspectives, learn from others in the class, and practice new ways to incorporate your personal reading habits with proven methods of literary study. L105 is especially recommended for students who have had trouble in the past with literature courses but are open to a new way of approaching literature, hands-on.

L115 Literature for Today (3 cr.)

P: W131. This course is intended to foster your understanding and appreciation of literature by making you an active participant in the process of creating and responding to literary works. The course will introduce you to the major literary genres (drama, poetry, and fiction) and equip you with the vocabulary needed to discuss literature. Because of the amount of reading and writing required in this course, it is strongly recommended that students complete W131 before taking this course. If you have not had W131, you may enroll in L105, or you may speak with your advisor or instructor about the whether you are ready for L115.

L202 Literary Interpretation (3 cr.)

This course introduces students to the values, habits, and best practices of interpreting literary works in conversation, class discussions, and written assignments. It encourages and guides students in examining how literary works engage and illuminate issues and events that constitute contemporary experience. The goal of the course is for students to take literary interpretation seriously as a source of value for their academic careers and for their lives.

L203 Introduction to Drama (3 cr.)

This course has two goals: to familiarize students with the study and appreciation of drama and to explore how theatre has been used as a vehicle for exploring community and diversity. Students will read tried and true classics, such as Sophocles' *Antigone* and Shakespeare's *Hamlet*, and modern classics, such as August Wilson's *Fences* and Marsha Norman's *Night Mother*, to show how people have defined themselves through theatre in an array of historical and cultural contexts. Class requires reading plays and sometimes watching videotaped performances of plays.

L204 Introduction to Fiction (3 cr.)

Explore a variety of modern and contemporary short stories and novels to learn what writers are saying and how they say it. Students usually purchase an anthology and several novels. Course work will consist of a number of readings, journal writing, short reflective essays, some group work, and a final project or paper. Our main goals will be (a) to discuss the major ideas in these works and their contexts (author's life and historical background), (b) to analyze and appreciate literary qualities such as characterization, imagery, allusions, and symbols, and (c) to improve skills in reading and writing about literature while recognizing, in the words of Kenneth Burke, that "literature is equipment for living."

L205 Introduction to Poetry (3 cr.)

L205 is a comprehensive introduction to the forms, styles, and statements of poetry. Students will learn strategies for approaching poems, not as hermetic structures with single hidden meanings, but as multifaceted expressions that form part of an ongoing cultural conversation. Students will learn to identify and understand such elements of poetry as sound, metaphor, line, denotative and connotative word choice, irony, closed and open form, meter, and theme. Students will write close-reading analyses of poems and comparative essays as well as short weekly responses to readings. Students will also venture out to the world of poetry on their own by attending public poetry readings and investigating contemporary poetry on their own or in groups. Students should prepare to be active members of the class discussions, participating in group work and leading conversations about course readings and topics.

L207 Women and Literature (3 cr.)

At times in the past, women were not encouraged to write—but they always have. Read women writers from various centuries, but especially modern and contemporary writers, and find out how women's complex lives have been explored and represented in works of poetry, fiction, and drama. Men are welcome in this class: you will find your gender represented in these works too!

L213 Literary Masterpieces I (3 cr.)

Here is your chance to read many of those famous works you have heard about but never studied in depth. L213 is a course in major Western literary works from Homer to the Renaissance. Readings will include such masterpieces as Homer's *Iliad* and *Odyssey*, Sophocles' *Oedipus the King*, Euripides' *Medea*, Plato's *Apology of Socrates*, Virgil's *Aeneid*, and Dante's *Divine Comedy*. These are some of the most important and influential works in the Western tradition and the course will give students an excellent basis for understanding much of later European literature and thought. Emphasis will be placed on making the literature accessible and interesting, relating it to historical events and contexts, and working on important reading and writing skills. Students will be actively involved in class through discussion and writing.

L214 Literary Masterpieces II (3 cr.)

L214 is the second course in a series that examines major Western literary works from Homer to the present. Readings will include texts of the Enlightenment, romanticism and revolution, realism, and modernism—the movements that pave the way for the literary forms of our own day. Our main goals will be (a) to discuss the major ideas in these works and their historical contexts; (b) to analyze and appreciate aesthetic qualities such as characterization, imagery, allusions, and symbols; and (c) to improve students' skills in reading and writing about literature.

L220 Introduction to Shakespeare (3 cr.)

This course will provide students with an introduction to several of Shakespeare's major plays. Our main goals will be (a) to discuss the ideas and messages in these works and their historical contexts; (b) to analyze and appreciate aesthetic qualities such as characterization, imagery, allusions, and symbols; (c) to

improve students' skills in interpreting and writing about literature; and (d) to analyze visual, aural, and other features of the plays in performance through viewing of selected video productions.

L245 Introduction to Caribbean Literature (3 cr.)

This course will introduce students to the basic themes of Caribbean literature. Specifically, students will examine the ways in which Caribbean writers present a colonial past and its effect on Caribbean culture in their attempts to “write back” to imperialist thought. We will examine the politics of decolonization and how writers construct/reconstruct Caribbean cultures and identities.

W130 Principles of Composition (3 cr.)

The W130/W131 Stretch Program offers students a year-long introduction to the demands of college literacy, namely, to writing and reading analytically. Students use similar textbooks and do similar assignments for the regular W131, but have more time to develop the abilities needed to successfully accomplish this work. Evaluation is based on portfolios of student work.

W131 Elementary Composition I (3 cr.)

P: W131 placement or completion of W130 (with a grade of C or higher). This course shows students how to write and read analytically, meeting the demands of college courses but also the expectations of citizens in a democracy. The emphasis is on communication of ideas and information with clarity and brevity. The course emphasizes audience and purpose, revision, organization, development, advanced sentence structure, diction, and development within a collaborative classroom. Evaluation is based on portfolios of student work.

W132 Elementary Composition II (3 cr.)

P: W131 (with a grade of C or higher). W132 introduces students to research writing as a process of inquiry which culminates in an informed position. Such work is not only the work of scholars but the work of responsible citizens, for it fosters thoughtful decision making and the ability to speak to important issues with authority based upon credible information. In the so-called information age, easy access makes evaluation of information an essential element of the research process; in W132, students gain practice at applying basic criteria to the resources they discover. Using those resources presents students with the ethical concerns of research as well: the responsibility to consider varied viewpoints and represent others' ideas fairly and to use academic documentation systems to acknowledge the ideas of others. As students read and write, they gain practice with the documents of academic research and with the issues of research as an activity. Evaluation is based on portfolios of student work.

W206 Introduction to Creative Writing (3 cr.)

W206 is a general introduction to creative writing that provides students with a broad understanding of the craft and style of creative writing genres. Students will start by working with language to understand better how they express themselves already. Then they will engage in a series of in-class writing exercises in which they will practice techniques and devices aimed at stretching the limits of expression in their writing and understanding such aspects of craft as image, voice, character, and story. Students will then move on to investigate specific creative forms and specialize in genres by writing a series of poems, a fully-developed short story, or a short work of creative nonfiction. Students will also learn workshop protocol and strategies for revising their work for a comprehensive portfolio they will submit at the end of the semester. Students should prepare to be active members of the class discussions, participate in group work and full-class workshops of their peers' work, and lead conversations about course readings and student writing.

W207 Introduction to Fiction Writing (3 cr.)

This course offers a general introduction to creative writing focusing on the genre of fiction. Students will start by exploring the fundamentals of creative writing—figurative language, imagery, and metaphor—

while learning the basic elements of the short story, such as plot, character, point of view, theme, and dialogue. Students will read from a wide range of short stories and will start their own writing by imitating the style or approach of one of the authors studied in class. Students will then plan out their own writing for the semester, aiming for two or three well-wrought stories. Along the way, students will gain inspiration and ideas from a number of in-class writing activities and short exercises. Students should expect to be active participants in the classroom discussion, working in small response groups, leading class discussions and activities, and sharing their stories in a workshop format.

W208 Introduction to Poetry Writing (3 cr.)

This course offers an introduction to writing poetry. Students are invited to experiment with the fundamentals of poetry (language, imagery, metaphor, and voice) while deepening their knowledge of poetic structure (line and form) as well as rhythm, and music. We will explore a broad landscape of contemporary poetry, trying our hand at everything from dream and memory poems to incantations and manifestoes in verse. Students should expect to be active participants in the classroom discussion. Students will work in small response groups, lead class discussions and activities, and share their poems in a workshop format. To broaden their awareness of and appreciation of contemporary poetry, students will also read and respond to a book of poems of their choice and attend and report on a poetry reading.

W210 Literacy and Public Life (3 cr.)

P: W131. W210 is an introduction to the study of writing as a public activity. We will see how researchers study writing and do a bit of such study ourselves. We will look at different writing-related vocations and avocations and how one might best prepare for those. We will investigate how writing is used in the public life of communities and our larger society. W210 is a good introduction to the writing and literacy concentration in the Department of English and is the required gateway course for that concentration. All students are welcome (English majors, English minors, those interested in writing from all majors, and those exploring English as a major). Students must have passed W131 to take this course; it would help to have taken a second writing course (such as W132 or W231).

W231 Professional Writing Skills (3 cr.)

P: W131. W231 builds on the lessons of W131 to introduce students to expanded research and writing skills, especially within writing situations and tasks encountered in workplace and organizational settings. Course assignments and activities emphasize the role of professional writing and the importance of developing professional writing skills. Course assignments include several brief business correspondence projects as well as an extensive team research project in a real-world setting. The course focuses on the rhetorical principles that guide students in creating effective writing in a variety of professional situations. The objective of professional and organizational writing is to produce results—it is aimed at helping people get work done. Students learn how people typically read and use work documents by analyzing the functions, structure, and language of professional writing. The course also teaches students the importance of information technology by introducing them to research skills that will be of value not only in the workplace, but also in upper-level courses in their majors.

W251 Introductory Business Writing (1 cr.)

This one credit televised course will help students write more effective business letters, memos, and reports by learning to manage the writing process. Using actual examples from a number of companies, the course will move through twelve five-minute steps in the typical writing hour, including “Make Holes, Not Drills,” “Get Your Ducks in a Row,” “Do It Wrong the First Time,” and “Signal Your Turns.” Exercises and writing assignments will give students the chance to practice what they are learning.

W260 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.

W290 Writing in the Arts and Sciences (3 cr.)

Studies academic writing as a means of discovery and record. Study of and practice in the procedures, conventions, and terminology of the humanities, social sciences, and natural sciences. W290 can serve as a second writing course for some majors, fulfill requirements for English majors and writing minors, or serve as an elective.

Film Studies (FILM)

C292 An Introduction to Film (3 cr.)

This course is an introduction to the study of film as an aesthetic, cultural, and historical form. Students examine the vocabulary of cinema and elucidate various aspects of the filmmaking process. A grounding in the concepts of film studies will enable students to explore how cinema represents reality and chart the multifaceted relationship between cinema and society.

Folklore (FOLK)

F101 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.

F131 Introduction to American Folklore (3 cr.)

Folklore and traditional expressive behavior within the context of American culture. Art and traditional philosophies of folk groups found in America, including ethnic groups, occupational groups, regional groups, religious groups, etc. The function of folklore within the lives of American people.

Forensic and Investigative Science (FIS)

205 Concepts of Forensic Science (3 cr.)

An introduction to forensic science covering scientific evidence (e.g., DNA, drugs), crime scene investigation (the real *CSI*), and guest speakers in various forensic sciences.

French (FREN)

F117-118-119 Beginning French I-II-III (3-3-4 cr.)

Introductory language courses designed for students who have not had any prior training in French. One hour each week outside of class is required for practice in the language laboratory. Three semesters are required to fulfill the foreign language requirement. Credit not given for both F117-F118-F119 and F131-F132. If students have had two years or more of high school French, they will receive a grade of S or F in F117.

F131-132 Intensive Beginning French I-II (5-5 cr.)

Intensive introduction to present-day French with drills for mastery of phonology, basic structural patterns, and functional vocabulary. One hour each week outside of class is required for practice in the language laboratory. Credit not given for both F131-F132 and F117-F118-F119.

F203 Second-Year French I (4 cr.)

P: 8–10 credit hours of college-level French or placement by testing. A continuation of practice in the listening, reading, speaking, and writing of French.

F204 Second-Year French II (4 cr.)

P: 11–14 credit hours of college-level French or placement by testing. Continuation of F203.

Geography (GEOG)

G107 Physical Systems of the Environment (3 cr.)

This course fulfills a portion of the natural science requirement in most schools. It introduces the planet's physical geography—how and why the natural environment varies from place to place, and how it is impacted by human activities. Topics include weather and climate, climate change, severe storms, landforms, soils, and vegetation. Significant emphasis on current environmental issues.

G108 Physical Systems of the Environment: Laboratory (2 cr.)

Laboratory session is optional for students enrolling in G107 and fulfills the lab science requirement in many schools. The course consists of a series of field, lab, and Web-based exercises that involve the collection and analysis of data on weather and climate, hydrology, maps, vegetation, soils, and landforms. G107 must be taken prior to or concurrently with G108.

G110 Introduction to Human Geography (3 cr.)

This course fulfills both social science and comparative world culture requirements. It introduces a series of principles, concepts, and methods for understanding the location of things in their place. It examines geographic perspectives on contemporary world problems such as religion, population growth, globalization of the economy, and human-environmental relations.

G130 World Geography (3 cr.)

This course fulfills social science requirements. It describes existing and emerging geopolitical patterns. An examination of the global scale of human activities and interaction with the environment and the linkages tying the various regions of the world into a single, global system.

Geology (GEOL)

G107 Environmental Geology (3 cr.)

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.

G109 Fundamentals of Earth History (3 cr.)

Basic principles of earth history: geologic time, basic rock types, and reconstructing past environments. Physical development of the earth: its interior, mountain formation, and plate tectonics. Origin and development of life: evolution and the fossil record. With laboratory G119. Equivalent to IU GEOL-G104, IU GEOL-G112, and PU GEOS 112.

G110 Physical Geology (3 cr.)

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, and plate tectonics. External processes: weathering, mass wasting, streams, glaciers, ground water, deserts, and coasts. With laboratory G120. Equivalent to IU GEOL-G103, IU GEOL-G111, and PU GEOS 111.

G115 Introduction to Oceanography (3 cr.)

Nonmathematical introduction to the geology, biology, and physical characteristics of the ocean. Includes waves, tides, currents of the world ocean, adaptations and distribution of marine animals, pollution of the marine ecosystem, and an introduction to the global ocean/atmosphere system.

G117 Environmental Geology Laboratory (1 cr.)

P or C: G107. Laboratory exercises in environmental aspects of the geosciences. To accompany G107.

G119 Fundamentals of Earth History Laboratory (1 cr.)

P or C: G109. Laboratory studies of rocks, fossils, and stratigraphic principles to reconstruct past environments and interpret earth history. To accompany G109.

G120 Physical Geology Laboratory (1 cr.)

P or C: G110. Laboratory studies of minerals and rocks, landscapes, and earth structures. To accompany G110 for non-geology majors.

G130 Short Courses in Earth Science (topic varies) (1 cr.)

Five-week short courses on a variety of topics in the earth sciences. Examples of topics include lunar and planetary geology, geology of Indiana, geology of national parks, glaciers, water, gemstones, geology of art, earthquakes, volcanoes, and dinosaurs. Each short course is one credit; no topic may be taken for credit more than once. Please check the Schedule of Classes for more detailed information.

G132 Environmental Problems (3 cr.)

This course is offered via the Internet and provides experience in addressing some of the kinds of problems that arise in studies of the environment. Particular attention is given to developing skills in evaluating scientific articles; specifically, the relevance of the information in an article, the credibility of the author, and the accuracy and usefulness of the quantitative information provided. The kinds of problems considered in this course will vary from semester to semester, but will be chosen from a list that includes global warming, tropical rain forests, acid rain, water pollution, solid waste disposal, appropriate use of land, and the ability of regulations to protect the environment. Three or four such topics will be covered each semester.

G135 Indiana Geology (3 cr.)

An in-depth investigation of Indiana's geology, including minerals and rocks, geologic time, mineral resources, fossils, topography, soil, water resources, and special geologic features such as the falls of the Ohio River and Indiana Dunes.

G136 Indiana Geology Field Experience (1 cr.)

P or C: G107, G110, or G135. Application of geologic principles to the solution of geologic problems in field settings. Projects on geologic topics, including sedimentary rocks and fossils, soils, mineral resources, hydrology, glacial history, and karst topography. Students undertake two projects per semester and must be available on two Saturdays for field work. Preparation for field days uses a combination of television, the Web, and e-mail. Each project requires a written report.

G180 Dinosaurs (3 cr.)

A survey of the characteristics and evolution of dinosaurs. Topics include occurrences of dinosaur remains in the fossil record, basic anatomy, principles used in classification, types of predatory and plant-eating dinosaurs, environments occupied during life, biology and behavior, extinction theories, dinosaur hunters, and dinosaurs in the media and public eye.

G185 Global Environmental Change (3 cr.)

The scientific basis behind natural and human-induced global environmental changes. Geological perspective of the formation of earth. Human activities influencing the natural system, including population, deforestation, water usage, acid rain, ozone depletion, smog, and global warming. Subsequent human reactions.

G199 Service Learning in Geology (1 cr.)

P or C: G107, G110, or G115. Students participate in community service projects. Completion of the project includes a paper reflecting on how the service experience contributed to the application of the principles of general education.

G205 Reporting Skills in Geoscience (3 cr.)

P: G110, G209, and ENG-W131. Techniques of presenting written and oral reports from the geoscience approach. The written report: mechanics of format and illustrations, proper citation of geoscience literature, the abstract, proofreading, and editing. The oral report: effective presentation and response to audience questions, and simulating a professional science meeting.

G206 Advanced Physical Geology Laboratory (2 cr.)

P or C: G110. The laboratory study of minerals, rocks, topographic maps, aerial photographs, landforms and landscapes, structural geology, and geologic maps. To accompany G110 for geology majors.

G209 History of the Earth (3 cr.)

P: G110, G206. Earth history with emphasis on physical and biological evolution of the earth, geologic time, stratigraphical correlation, plate tectonics, paleodepositional environments, paleogeography, and evolution of life. Laboratory and field trips.

G221 Introductory Mineralogy (3 cr.)

P: G206 and CHEM-C105. Crystallography: symmetry, morphology, and classes. Mineral chemistry, physics, and genesis. Description, identification, association, occurrence, and use of common and important minerals.

G222 Introductory Petrology (3 cr.)

P: G221 and CHEM-C106. Igneous, sedimentary, and metamorphic rocks: composition, field occurrence, characteristics, classification, origin, laboratory description, and identification.

German (GER)**G117-118-119 Beginning German I-II-III (3-3-4 cr.)**

Introductory courses for students who have not had prior training in German or who desire to study German at a pace slower than G131-G132. Three semesters are required to fulfill the 10 credit hour foreign language requirement. Credit is given only for the sequence G117-G118-G119 or the sequence G131-G132. G117 is for students without prior study of German. If students have had two years or more of high school German, they will receive a grade of S or F.

G131-132 Intensive Beginning German I-II (5-5 cr.)

Intensive introduction to present-day German and selected aspects of German life. Intensive drills for mastery of phonology, basic structural patterns, and functional vocabulary. Credit is given only for the sequence G131-G132 or the sequence G117-G118-G119.

G225 Intermediate German I (4 cr.)

P: G119, G132, or equivalent, or placement by testing. Intensive review of grammar. Further development of oral and written use of the language. Readings selected from contemporary German writing.

G230 Intermediate German II (4 cr.)

P: G225 or equivalent, or placement by testing. Review of grammar. Readings of modern German with stress on discussion in German of content and style. Writing of descriptive and expository prose.

Health Information Administration (HIA)

M110 Computer Concepts for Health Informatics (3 cr.)

Course provides an overview of applications for the health and medical professionals. Topics include: audit trails, generating, qualifying and analyzing medical reports, word processing, computer hardware, medical software, copyright and fair usage. Students retrieve and present medical data.

History (HIST)

H105-H106 American History I-II (3-3 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.

H108 Perspectives on the World to 1800 (3 cr.)

Emergence of civilizations in the Near East, sub-Saharan Africa, and 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.

H109 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; and Chinese, Mexican, and Russian revolutions. Independence movement in India, World War II, Cold War, new nations in Asia and Africa, and struggle for solidarity in Latin America.

H113-H114 History of Western Civilization I-II (3-3 cr.)

I: rise and fall of ancient civilizations; barbarian invasions; rise, flowering, and disruption of medieval church; and feudalism, national monarchies. II: rise of middle class; parliamentary institutions, liberalism, political democracy; industrial revolution, capitalism, and socialist movements; and nationalism, imperialism, international rivalries, world wars.

H217 The Nature of History (3 cr.)

An introductory examination of what history is, types of historical interpretation, common problems in history, and the uses of history.

H220 American Military History (3 cr.)

From settlement of colonies to present. European background, colonial militia. Principal foreign wars and their strategic objectives. Technological changes and effect of military on American society. Army is emphasized with some attention to other armed forces.

Honors Courses (HON)

Important notice about registering for 100- and 200-level honors courses:

Check OneStart for catalog numbers; be careful to select the “honors section” of the course listed.

Enrollment in an honors course usually requires authorization from the Honors Program advisor unless otherwise noted. If you have any questions or concerns, please contact the Honors Program advisor at (317) 274-8145 or the Honors Program at (317) 274-2660.

The following is a list of departments that typically offer honors courses in the fall or spring semesters:

Art History

Biology

Business

Chemistry

Communication Studies

Economics

English
History
Mathematics
Organizational Leadership and Supervision
Philosophy
Psychology
Religious Studies
Women's Studies

Please refer to the IUPUI Campus Bulletin for complete course descriptions. For specific information about times and class numbers, please refer to the Honors Program Web site (<http://uc.iupui.edu/honors>) and click on the "courses" tab.

Industrial Engineering Technology (IET)

10400 Industrial Organization (3 cr.)

A detailed survey of organizational structure: operations, finances, marketing, accounting, management, planning, control, personnel, quality, safety, wages, policy, and the human factors necessary for effective management.

15000 Quantitative Methods for Technology (3 cr.)

P: MATH 151. A course in the application of statistical techniques to typical problems in technology. Topics include data collection, descriptive statistics calculation, hypothesis testing, sampling, continuous and discrete distribution, probability, ANOVA, and related topics. The course also introduces the use of spreadsheet and other software to solve statistical calculations. Introduction to SPC is included. Basic metrology, concepts of gage and meter calibration calculations, instrument linearity, repeatability, reproducibility, sensitivity, precision, and instrument control are included.

Informatics (INFO)

I101 Introduction to Informatics (4 cr.)

Problem solving with information technology; introductions to information representation, relational databases, system design, propositional logic, and cutting-edge technologies, such as CPU, operating systems, and networks; laboratory emphasizing information technology, including Web-page design, word processing and databases using tools available on campus.

I201 Mathematical Foundations of Informatics (4 cr.)

P: INFO-I101 and MATH-M118. An introduction to the suite of mathematical and logical tools used in information sciences, including finite mathematics, automata and computability theory, elementary probability, statistics, and basics of classical information theory.

I202 Social Informatics (3 cr.)

P: INFO-I101. Introduction to key social research perspectives and literatures on the use of information and communication technologies. Discusses current topics such as information ethics, relevant legal frameworks, popular and controversial uses of technology (e.g., peer-to-peer file sharing), digital divides, etc. Outlines research methodologies for social informatics.

I210 Information Infrastructure I (4 cr.)

Recommended P or C: I101. The software architecture of information systems. Basic concepts of systems and applications programming.

I211 Information Infrastructure II (4 cr.)

P: I210. The systems architecture of distributed applications. Advanced programming including an introduction to the programming of graphical systems.

Interior Design (INTR)

10300 Introduction to Interior Design (3 cr.)

An overview of the field of interior design, including history and theory. An application of the principles and elements of interior design. Basic hand drafting is included. Two lecture hours and two lab hours per week.

12400 Space Planning for Interiors (3 cr.)

P: INTR 103. Introduction to the fundamentals of design for human activity, standards for space, programming, and graphic communication. Requirements for ADA and Universal Design will be included. Two lecture hours and two lab hours per week.

12500 Color and Lighting of Interiors (3 cr.)

Exploration of the physiological, psychological, and phenomenal aspects of color and light in interior spaces. Application includes specification and selection of lighting fixtures and light sources. Two lecture hours and two lab hours per week.

15100 Textiles for Interiors (3 cr.)

C: INTR 103. An extensive study of textiles: fiber types, yarn production, fabric construction, finishing coloring, and printing. Application of textiles for use in residential and commercial interiors.

20400 History of Interiors and Furniture (3cr.)

P: INTR 103. A survey of the development of interiors, furniture, and decorative arts from early history to the present. Emphasis is on design motifs, ornamentation, and furniture styles. Adaptation and use of period styles within contemporary design are included.

International Studies (INTL)

I100 Introduction to International Studies (3 cr.)

This course is designed to introduce students to international studies. In contrast to international relations (a subfield of political science) with which it is often confused, international studies is an interdisciplinary field. This course provides students with an interdisciplinary sample of international studies scholarship from a variety of academic disciplines.

Italian (ITAL)

M117-M118-M119 Basic Italian I-II-III (3-3-4 cr.)

Introductory language course in contemporary Italian. Focus on grammar, reading, conversation, elementary writing, and culture.

Japanese Studies (EALC)

E231 Japan: Living Tradition (3cr.)

An introduction to the patterns of Japanese culture: society, history, visual arts, literary masterpieces, performing arts, and living religious traditions.

J131-132 Beginning Japanese I-II (5-5 cr.)

Introductory language courses designed for students who have not had any prior training in Japanese. Drills for basic skills in listening, speaking, reading, and writing of Japanese.

J201-202 Second-Year Japanese I-II (3-3 cr.)

P: J131-J132 or its equivalent. A continuation of practice in the listening, speaking, and writing of Japanese.

Journalism (JOUR)

J100 Computer Methods for Journalism (3 cr.)

An introduction to computing uses in journalism. Hands-on experience with computer software packages commonly used in journalistic research and expression. Experience with using the Internet, LexisNexis, and other library resources for research. This course is for students on the Indianapolis campus only. Bloomington students take SLIS L155 Information Resources in Journalism. Web sections available.

J110 Foundations of Journalism and Mass Communication (3 cr.)

Survey of the institutions of journalism and mass communication, their philosophical foundations, history, processes, economic realities, and effects.

J200 Reporting, Writing, and Editing I (3 cr.)

P: ENG-W131 or its equivalent, and fundamental computer skills. P or C: SLIS-L155 in Bloomington, J100 in Indianapolis. Working seminar stressing the creation of journalistic stories for diverse audiences. Students will learn to develop story ideas, gather information, combine visual and verbal messages, and write and edit news. Web sections available.

J210 Visual Communication (3 cr.)

Theories of visual communications, including human perception, psychology of color, and principles of design. Application of those theories to photography, video, and graphic design in news communication.

Labor Studies (LSTU)

L100 Survey of Unions and Collective Bargaining (3 cr.)

A survey of labor unions in the United States focusing on their organization and their representational, economic, and political activities. Includes coverage of historical development, labor law basics, and contemporary issues.

L101 American Labor History (3 cr.)

A survey of the origin and development of unions and the labor movement from colonial times to the present. The struggle of working people to achieve dignity and security is examined from social, economic, and political perspectives.

L110 Introduction to Labor Studies: Labor and Society (3 cr.)

This course will introduce 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 nonwork lives and will look at U.S. labor relations in a comparative framework.

L190 The Labor Studies Degree (1 cr.)

This course will provide an introduction to the labor studies degree and to the knowledge and skills needed by students to progress toward a degree in a reasonable time frame. Students will learn how to build a plan of study that takes advantage of credit for prior learning and new learning opportunities.

L200 Survey of Employment Law (3 cr.)

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.

L201 Labor Law (3 cr.)

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.

L203 Labor and the Political System (3 cr.)

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; and relationships with community and other groups.

L205 Contemporary Labor Problems (3 cr.)

An examination of some of the major problems confronting society, workers, and the labor movement. Topics may include automation, unemployment, international trade, conglomerates, environmental problems, minority, women's rights, community relations, and changing government policies.

L210 Workplace Discrimination and Fair Employment (3 cr.)

Examines policies and practices that contribute to workplace discrimination and those designed to eliminate discrimination. Explores effects of job discrimination and occupational segregation. Analyzes Title VII, ADA, and related topics in relation to broader strategies for addressing discrimination.

L220 Grievance Representation (3 cr.)

Union representation in the workplace. The use of grievance procedures to address problems and administer the collective bargaining agreement. Identification, research, presentation, and writing grievance cases. Analysis of relevant labor law and the logic applied by arbitrators to grievance decisions.

L230 Labor and the Economy (3 cr.)

Analysis of the political economy and the role of organized labor within it. Emphasis on the effect on workers, unions, and collective bargaining on employment, investment policy, and changes in technology and corporate structure. Patterns of union political and bargaining responses.

L240 Occupational Health and Safety (3 cr.)

Elements and issues of occupational health and safety. Emphasis on 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.

L250 Collective Bargaining (3 cr.)

The development and organization of collective bargaining in the United States, including union preparation for negotiations, bargaining patterns and practices, strategy and tactics, and economic and legal considerations.

L251 Collective Bargaining Laboratory (1–3 cr.)

P or C: L250. Provides collective bargaining simulations and other participatory experiences in conjunction with L250.

L255 Unions in State and Local Government (3 cr.)

Union organization and representation of state and municipal government employees, including patterns in union structure, collective bargaining, grievance representation, and applicable law.

L260 Leadership and Representation (3 cr.)

Organizational leadership issues for union, community, and other advocate organizations. Analyzes leadership styles, membership recruitment, and leadership development. Examines the roles of leaders in internal governance and external affairs, including committee building, delegation, negotiations, and coalition building.

L270 Union Government and Organization (3 cr.)

An analysis of the growth, composition, structure, behavior, and government processes of U.S. labor organizations from the local to the national federation level. Consideration is given to the influence of unions on industrial and political environments, organizational behavior in different types of unions, and problems in union democracy.

L280 Union Organizing (3 cr.)

Explores various approaches and problems in private-sector organizing. Traditional approaches are evaluated in light of structural changes in labor markets and workforce demographics. Topics range from targeting and assessments to committee building and leadership development.

L285 Assessment Project (1 cr.)

Capstone experience for associate degree students.

Mathematical Sciences (MATH)

001 Introduction to Algebra (4 cr.)

P: placement. 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, and radicals. Credit does not apply toward any degree.

1100 Fundamentals of Algebra (4 cr.)

P: MATH 001 or M001 (with a minimum grade of C–) or placement. 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 prerequisite needed for M118, M119, 130, and STAT 301.

1110 Algebra (4 cr.)

P: MATH 001 or M001 (with a minimum grade of C) or placement. Intermediate algebra for science, engineering, and technology majors. Real numbers, linear equations and inequalities, systems of equations, polynomials, exponents, and logarithmic functions. MATH 111 is more rigorous than MATH 110 and covers additional material. It is a prerequisite for MATH 153 or 159 and can serve as a prerequisite for MATH 130, 136, M118, M119, and STAT 301.

1300 Mathematics for Elementary Teachers I (3 cr.)

P: MATH 111 or 110 (with a minimum grade of C–) or equivalent; one year of high school geometry. Numeration systems, mathematical reasoning, integers, rationals, reals, properties of number systems, decimal and fractional notations, and problem solving.

1320 Mathematics for Elementary Teachers II (3 cr.)

P: MATH 130. Rationals; reals; geometric relationships; properties of geometric figures; one-, two-, and three-dimensional measurements; and problem solving.

13600 Mathematics for Elementary Teachers (6 cr.)

P: MATH 111 or 110 (with a minimum grade of C) or equivalent; one year of high school geometry. This course is a one-semester version of MATH 130 and 132. Not open to students with credit in MATH 130 or 132.

15300 Algebra and Trigonometry I (3 cr.)

P: MATH 111 (with a minimum grade of C) or two years of high school algebra. MATH 153-154 is a two-semester version of MATH 159. Not open to students with credit in MATH 151 or 159. This course covers college-level algebra and provides preparation for MATH 163 and 221.

15400 Algebra and Trigonometry II (3 cr.)

P: MATH 153 (with a minimum grade of C) or five semesters of high school algebra. MATH 153-154 is a two-semester version of MATH 159. Not open to students with credit in MATH 151 or 159. This course covers college-level trigonometry and provides preparation for MATH 163 and 221.

15900 Pre-Calculus (5 cr.)

P: MATH 111 (with a minimum grade of B) or placement. This course is a one-semester version of MATH 153-154. Not open to students with credit in MATH 153 or 154. This course covers college-level algebra and trigonometry and provides preparation for MATH 163 and 221.

16300 Integrated Calculus and Analytic Geometry I (5 cr.)

P: MATH 154 or 159 (with a minimum grade of C) or equivalent and one year of geometry. 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. Equivalent to IU MATH-M211.

16400 Integrated Calculus and Analytic Geometry II (5 cr.)

P: MATH 163 (with a minimum grade of C-). Transcendental functions, techniques of integration, indeterminate forms and improper integrals, conics, polar coordinates, sequences, infinite series, and power series. An honors option is available in this course. Equivalent to IU MATH-M212.

17100 Multidimensional Mathematics (3 cr.)

P: 159 or 154 (minimum grade of C) or equivalent, and one year of high school geometry. 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.

22100 Calculus for Technology I (3 cr.)

P: MATH 154 or 159 (with a minimum grade of C-) or placement test, and one year of geometry. Analytic geometry, the derivative and applications, the integral, and applications.

22200 Calculus for Technology II (3 cr.)

P: MATH 221 (with a minimum grade of C-). Differentiation of transcendental functions, methods of integration, power series, Fourier series, and differential equations.

26100 Multivariate Calculus (4 cr.)

P: MATH 164. Spatial analytic geometry, vectors, curvilinear motion, curvature, partial differentiation, multiple integration, line integrals, and Green's theorem. Equivalent to IU MATH-M311.

26200 Linear Algebra and Differential Equations (4 cr.)

P: MATH 164; MATH 261 is recommended. First-order equations, higher-order linear equations, initial and boundary value problems, power series solutions, systems of first order equations, Laplace

transforms, and applications. Requisite topics of linear algebra: vector spaces, linear independence, matrices, eigenvalues, and eigenvectors.

M001 Introductory Algebra (6 cr.)

P: placement test or self elect for students who need more time on task. 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 are taught.

M118 Finite Mathematics (3 cr.)

P: MATH 111 or 110 (with a minimum grade of C–) or equivalent. Set theory, logic, permutations, combinations, simple probability, conditional probability, and Markov chains. An honors option is available in this course.

M119 Brief Survey of Calculus I (3 cr.)

P: MATH 111 or 110 (with a minimum grade of C–) or equivalent. Sets, limits, derivatives, integrals, and applications. An honors option is available in this course.

Mechanical Engineering Technology (MET)

10200 Production Design and Specifications (3 cr.)

P: CGT 110. The design, evaluation, and documentation of engineering specifications required for manufacturability and assembly are introduced. Emphasis is on CAD-based details, assemblies, design layouts, equipment installations, and related industrial practices. One lecture hour and five lab hours per week.

10500 Introduction to Engineering Technology (3 cr.)

This course provides beginning engineering technology students with the basic tools necessary for success in their chosen technology degree program. Topics include survey of engineering technology careers, technology laboratories and report writing, use of calculators, engineering calculations, metrology, technology computer applications, and use of spreadsheets for engineering calculations. Major emphasis is on computer applications and QBasic. Two lecture hours and three lab hours per week.

14100 Materials I (3 cr.)

An overview of structures, properties, and applications of metals, polymers, ceramics, and composites commonly used in industry. Problem-solving skills are developed in the areas of materials selection, evaluation, measurement, and testing. Two lecture hours and two lab hours per week.

14200 Manufacturing Processes I (3 cr.)

P: MET 141. Basic casting, forming, and joining processes are surveyed. The course emphasizes the selection and application of various processes. Two lecture hours and three lab hours per week, or three lectures hours per week.

Military Science (MIL)

Also see Aerospace Studies for Air Force ROTC.

The basic course (G101, G102, G120, G121, G201, G202) is usually taken in the freshman and sophomore years. All necessary textbooks and materials are furnished without cost to the student, and all tuition and fees are paid for through university fee remission. Signing up for the basic course is an excellent way to explore officership for those with an interest. No prior military experience is required, and no obligation for military service is incurred for participation in the basic course. Students may withdraw from the basic course at any time through the end of the second year.

Individual courses cover the areas of the Army profession, leadership, values and ethics, personal development, physical well-being, military history, drill and ceremony, customs and courtesies, squad tactics, map reading, first aid, and basic rifle marksmanship. Various social and professional activities are available in conjunction with the military science program.

Course credit is determined as follows: 100-level courses are one credit hour, and 200-level courses are two credit hours, for a total of six credit hours in the Basic Course. In essence, this course is intended to introduce the student to the Army and ROTC. Theoretical concepts are covered in the classroom, and practical military skills are learned in a field-training environment.

Students are encouraged to attend optional physical fitness training (Monday, Wednesday, Friday from 6:45 a.m. to 7:45 a.m.), field-training exercises, and periodic leadership labs.

G101 Leadership and Personal Development (1 cr.)

This course introduces cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal development of life skills, such as goal setting, time management, physical fitness, and stress management, relate to leadership, officership, and the Army profession. 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.

G102 Foundations in Leadership (1 cr.)

This course overviews 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.

G120-121 Leadership Lab (1-1 cr.)

Must be enrolled in an Army ROTC class. Different roles are assigned based on level in the program. Learn and practice basic soldiering skills. Build self-confidence, team building, and leadership skills that can be applied throughout life. Course meets one Friday per month and one Saturday a semester. Students desiring credit for this course must formally enroll and pay for the course.

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 exercises. 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 weekend field-training exercise are optional, but available to those looking for more out of their college experience.

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.

HPER-E130-230 Army Physical Fitness (2-2 cr.)

(This course is offered through the School of Physical Education and Tourism Management.)

Open to all students at IUPUI who are physically able to participate in a fitness class regardless of whether they are in another military science class. The course emphasizes the development of an individual fitness program and the role of exercise and fitness in one's life. Basic Course cadets attend sessions for no credit without formally enrolling in accordance with the Professor of Military Science's

Physical Fitness Memorandum. If cadets desire credit for this course, they must formally enroll and pay for the course.

Leaders Training Course

This four-week camp is held at Fort Knox, Kentucky each summer in June and July. It is designed for students entering their junior year the next fall. Successful completion of this camp allows direct entrance into the ROTC Advanced Course (the final two years of ROTC). Students' travel expenses are paid, and lodging and meals are provided. In addition, participating students earn about \$600. ROTC scholarships are offered to more than 50 percent of students who complete the course and meet Advanced Course eligibility requirements. Training covers rappelling, map reading and navigation, basic leadership techniques, physical training, individual and unit tactics, communications, first aid, drill/parades/ceremonies, military courtesies and traditions, and water survival. Students will learn about the Army and themselves and will take away from the experience discipline, pride, and confidence. For more information, interested sophomores should contact the Military Science Department at (317) 274-2691 or goarmy@iupui.edu.

Music (MUS)

B110 Horn Elective/Secondary (2 cr.)

Individual French horn lessons. Additional applied fee. Interview or audition required.

B120 Trumpet/Cornet Elective/Secondary (2 cr.)

Individual trumpet/cornet lessons. Additional applied fee. Interview or audition required.

D100 Percussion Elective/Secondary (2 cr.)

Individual percussion lessons. Additional applied fee. Interview or audition required.

E241 Introduction to Music Fundamentals (2 cr.)

Designed for, but not limited to, elementary education majors and others interested in using music as a learning tool. Offered on campus and through the Web.

L100 Guitar Elective/Secondary (2 cr.)

Individual guitar lessons. Additional applied fee. Interview or audition required.

L101 Beginning Guitar Class (2 cr.)

Fundamentals of contemporary guitar playing with emphasis on simple songs and chords; acoustic guitar required for class and practice.

L102 Intermediate Guitar Class (2 cr.)

P: L101 or ability to read music and play chord structures proficiently. Builds on knowledge learned in L101; ability to reach chord notation, rhythms, and music notation necessary; acoustic guitar required for class and practice.

M174 Music for the Listener (3 cr.)

A survey course covering traditional and modern music styles of the last 1,000 years. Learn how to listen to music, instruments, and musical forms. No prior music experience required. Offered on campus and through the Web.

M394 Black Music in America (3 cr.)

A survey and exploration of black music from its African origins to the present with special emphasis on its social, economic, and political impact.

P100 Piano Elective/Secondary (2 cr.)

Individual piano lessons. Additional applied fee. Interview or audition required.

P110 Beginning Piano Class for Non-Music Majors (2 cr.)

Learn keyboard and music-reading skills; must have access to out-of-class keyboard for practice. No prior music experience required.

P120 Beginning Piano Class 2 for Non-Music Majors (2 cr.)

P: P110 or permission of instructor. Builds on knowledge learned in P110.

S110 Violin Elective/Secondary (2 cr.)

Individual violin lessons. Additional applied fee. Interview or audition required.

S120 Viola Elective/Secondary (2 cr.)

Individual viola lessons. Additional applied fee. Interview or audition required.

V100 Voice Elective/Secondary (2 cr.)

Individual voice lessons. Additional applied fee. Interview or audition required.

V101 Voice Class (2 cr.)

Introductory aspects of voice, basic vocal techniques, and a wide variety of vocal styles and literature; students perform solo and ensemble singing. No prior music experience required.

W110 Flute/Piccolo Elective/Secondary (2 cr.)

Individual flute/piccolo lessons. Additional applied fee. Interview or audition required.

W150 Saxophone Elective/Secondary (2 cr.)

Individual saxophone lessons. Additional applied fee. Interview or audition required.

X040 University Instrumental Ensembles (2 cr.)

Indianapolis Philharmonic Orchestra. Admission by audition only. Call 274-4000 for more information.

X040 University Instrumental Ensembles (2 cr.)

IUPUI Jazz Ensemble. Music of the Big Band era. This class is contingent upon enrollment of full instrumentation. Enrollment limited. Audition/interview required. Call 274-4000 for more information.

X040 University Instrumental Ensembles (1 cr.)

The IUPUI Pep Band is organized in the fall and performs at home basketball games in the spring. Open to all students who play a band instrument. Call 274-4000 for more information.

X070 University Choral Ensemble (2 cr.)

The following vocal ensembles are available at IUPUI: the IUPUI Choir and the Indianapolis Symphonic Choir. Authorization and audition required. Call 274-4000 for more information.

X070 University Choral Ensemble (1 cr.)

IUPUI Choir meets 1 hour and 15 minutes per week; course culminates in a major performance each semester. Authorization required. Call 274-4000 for more information.

Z100 The Live Musical Performance (2 cr.)

Examines the approach to live performance of music (large ensembles, chamber ensembles, solo recitals, and other multimedia performances). Students attend live events, discuss music performances for genre, and develop critical listening skills.

Z111 Introduction to Music Theory (3 cr.)

A study of the fundamentals of the language and notation of music: listening, music reading and writing, and the elements of music as used in a variety of genres. Open to all students interested in a general background in music. Recommended for singers, guitarists, and keyboard players.

Z201 History of Rock 'n' Roll Music: '50s and '60s (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 the most enduring significance.

Z211 Music Theory II (3 cr.)

P: successful completion of Z111 or consent of instructor. Overview of part writing, musical form, harmonic analysis, and modulation. Intermediate aural skills, including harmonic and melodic dictation.

Z301 History of Rock Music: '70s and '80s (3 cr.)

Survey of trends and styles in rock music of the 1970s and 1980s. Focus on the artists and groups who have shaped the music of yesterday, today, and tomorrow.

Z315 Music for Film (3 cr.)

A survey of the music and sound of movie soundtracks. Class will analyze feature film segments to see how music textures, tempos, and structures affect the plot.

Z320 Special Topics in Popular Music (3 cr.)

This is a variable topics class in popular music. Some of the topics could include the following: music business marketing, music of Jimi Hendrix, history of American popular and urban music, song interpretation and performance, musical theatre auditions, women musicians, history of jazz since 1950, podcast music techniques, and steel pan techniques.

Z373 The American Musical: Context and Development (3 cr.)

The origins of the American musical: its societal impact and its development from vaudeville and European operetta to the rock musicals of today.

Z374 Contemporary Broadway Musicals (3 cr.)

An exploration of the Broadway musical with a focus on contemporary trends. American rock musicals, revivals, and British and European productions. Study of contemporary producers, composers, lyricists, choreographers, and directors.

Z393 History of Jazz (3 cr.)

Emphasis on jazz as a way to better understand the history and culture of America by examining the periods, major performers and composers, trends, influences, stylistic features, and related materials.

Z401 Music of the Beatles (3 cr.)

Chronicles the meteoric rise of the group from Liverpool, England who started the rock revolution heard around the world.

New Media (NEWM)

N100 Introduction to Digital Media Principles (3 cr.)

Introduces skills and knowledge critical to making a successful new media product in today's competitive market. Students are exposed to new and emerging technologies and applications and will be able to define and understand new media markets. These competencies will be developed through lectures, demonstrations, class discussions, guest lecturers, and examples of new media.

N110 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.

N175 Digital Media I: Vector Imaging (3 cr.)

P: N101. Vector graphics are produced using traditional visualization (sketches) and computer methods. Color theory, geometric construction, and rendering techniques are utilized in vector-based graphic creation for use in new media applications (Illustrator).

N180 Digital Media II: Raster Imaging (3 cr.)

P: N101. Raster graphics are produced by using traditional visualization (sketches) and computer methods. Topics will include image composition, realistic representation, digital imaging for new media, color mode and pallet usage, material and value representation.

N190 Topics in Interactive Multimedia (3 cr.)

P or C: N100. Interactive multimedia is a rapidly evolving field that is significantly influenced by changes in theory, storage media, computing hardware, design and editing principles from animation and video production, authoring and presentation software, and communication capabilities in disciplines, such as music, art, and journalism. Students will be exposed to recent trends by hands-on development of interactive media projects. These will include development of interactive multimedia for use on multiple platforms, developing multimedia that can be accessed via the Internet, real-time/real-audio interaction between users, and the development of interactive CD-ROM-based multimedia.

N201 Design Issues in Digital Media (3 cr.)

P: N101. Introductory course that will equip students with strategies in assembling visuals applicable to any medium. It will explore composition strategies, visual literacy and awareness, and principles of the visual display of quantitative information. The course will begin with traditional visual (print) media and move into digital forms to give students an awareness and ability to work in any medium. Projects, lectures, discussions, and writing assignments serve as a survey of best practices.

N240 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 lectures and projects. All phases of video production will be addressed: from pre-production through production to post-productions with a focus on the digital media aspects.

N260 Scriptwriting (3 cr.)

P: N190. An introduction to writing for new media. Concentrating on developing ideas, concepts, plans, and stories, students will generate scripts and analysis for numerous new media projects. Other topics covered include writing for scripts, grants, storyboards, advertising, and marketing plans.

N265 Sound Composition (3 cr.)

P: N190. An introduction to digital sound creation and editing. Concentrating on sound effects, voice over, and composition, students will generate sound for various new media projects. Other topics covered include recording, formatting, effects, editing, and conversion.

N270 Visual Composition (3 cr.)

P: N190. An introduction to the composition of visual information in regard to new media. Students will develop a visual style through digital and traditional methods to tell stories. Other topics covered include digital photography, framing, shot selection, camera movements, and time-based programs.

N275 Visual Practices (3 cr.)

P: N190. An introduction to drawing and idea generation for new media projects. Students will develop control over spatial relationships and defining ideas through drawing and other visualization techniques. Other topics covered include perspective, life drawing, rendering, developing roughs, and advanced storyboards.

N280 Design Principles (3 cr.)

P: N190. An introductory course that will equip students with strategies in assembling visuals applicable to all new media. Students will explore composition strategies in raster- and vector-based problems. Other topics include typography, color theory, grids and layouts, and style.

N290 Creative Concept Development (3 cr.)

Creativity, ideation, and concept development are the focus of this new media course. Students learn the processes of creative problem solving, idea generation, and development through specific theories, methodologies, and projects as they apply to new media design in two dimensions, three dimensions, and sound. Processes include brainstorming, group think-tanking, sketching, storyboarding, and other image making for image, motion, and sound.

Nursing (NURS)

A100 Nursing: Drug Dosage Calculation (2 cr.)

Provides a review of basic mathematics and presents a method of solving problems involving drug dosages.

Organizational Leadership and Supervision (OLS)

10000 Introduction to Organizational Leadership and Supervision (1 cr.)

This class offers a general introduction to the OLS program. It also covers the purposes and practices relevant to front-line supervisors, managers, and leaders at all organizational levels. Students are given an opportunity to meet the OLS faculty and learn about OLS degrees, related technology courses, and other general education and elective classes.

25200 Human Behavior in Organizations (3 cr.)

Study of individual and group behavior in organizations. Special emphasis on typical supervisory relationships.

26300 Ethical Decisions in Leadership (3 cr.)

P: ENG-W131 or equivalent. This class is for students interested in discussing and contemplating the difficult legal and ethical situations facing managers in all sizes and types of organizations. Students in this class will read and discuss a variety of sources on ethics in the workplace and analyze written and videotaped legal and ethical scenarios.

27400 Applied Leadership (3 cr.)

Introduction 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.

Philosophy (PHIL)

P110 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, such as Plato, Descartes, Nietzsche, and Sartre.

P120 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.

P162 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.

P237 Environmental Ethics (3 cr.)

Addresses the moral issues concerning the relation between humans and the environment. Covers such topics as resource depletion, population growth, endangered ecosystems, deep ecology, and land ethic.

P265 Introduction to Symbolic Logic (3 cr.)

An introductory-level course in symbolic logic. Study of the two most widely applicable systems: propositional logic and predicate logic.

P280 Philosophical Problems: (variable title) (3 cr.)

Concentrated treatment of an important philosophical problem. May be repeated for credit when topics vary.

P281 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.

Physical Education (HPER)

University College students and preparatory students are encouraged to take classes with the following designations: D (dance), E (elective activity), F and H (health and wellness), N (nutrition), and selected P (physical education) classes.

Courses with D or E prefixes are one or two credit hour physical education courses in a variety of areas, such as: dance, aerobics, basketball, karate, swimming, yoga, weight training, golfing, jogging, fencing, stress management, tennis, scuba, volleyball, soccer, and many other areas of interests. See the current Schedule of Classes for a complete listing of courses offered each semester. Please note that all courses with a D and E prefix have attendance requirements, periodic examinations, and involve active participation.

F255 Human Sexuality (3 cr.)

Survey of the dynamics of human sexuality; identification and examination of basic issues in human sexuality as they relate to the larger society.

H160 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. Skill training in all procedures.

H195 Principles and Applications of Lifestyle Wellness (3 cr.)

This course will increase an awareness of and provide instruction pertaining to wellness and will assist students in making healthy lifestyle choices. The course supports an emphasis on measurable parameters within the physical dimension of wellness and incorporates the remaining dimensions of emotional, intellectual, occupational, social, and spiritual wellness.

L135 Learning Community (1 cr.)

Transition to the university environment for new majors in physical education programs. Designed to assist students as they form connections to students, advisors, faculty, and other members of the university community.

N220 Nutrition for Health (3 cr.)

Basic principles of nutrition with emphasis on identification, functions, and food sources of nutrients required by individuals for optimum health and development. Rationale for dietary modifications in conditions related to the life cycle and disease.

P195 History and Principles of Physical Education (3 cr.)

This course will provide an understanding of and introduction to the principles and practices of teaching physical education. Included is an introduction to teaching pedagogy, including lesson and unit planning skills. In addition, an introduction to the history of physical education as well as a history of the School of Physical Education and Tourism Management is presented.

P200 Microcomputer Applications in Physical Education (3 cr.)

A hands-on introduction to the use of microcomputers as problem-solving tools in physical education. Course content includes an introduction to microcomputers and Windows functions; word processing, spreadsheets, and database skills; and experience with graphics, basic Web-page design, and sport-specific application programs.

P212 Introduction to Exercise Science (3 cr.)

An introduction to the science of exercise and human movement. Special topics in exercise physiology, sports biomechanics, sports medicine, and motor integration.

P215 Principles and Practice of Exercise Science (3 cr.)

This course provides students with a forum for discussing and assessing the physical and psychological behaviors that lead to a healthy lifestyle. Group work and class participation are course requisites to provide students with opportunities to learn to communicate fitness principles. To help students evaluate new information that may impact their professional careers, a special emphasis is placed on exercise science research and how that research relates to course content.

P224 Teaching of Dance Activities (2 cr.)

Instruction and participation in fundamental, locomotor, and axial dance movements and the relation of dance movement to music. Covers learning a variety of dance activities and learning, practicing, and teaching those activities. Topics may include singing, rhythmic games, folk dances, creative dance, social and ballroom dance, and other genres. Prerequisite: an elective dance class other than aerobic dance. Prerequisite: an elective dance class other than aerobic dance.

P290 Movement Experiences for Preschool and Elementary Children (2 cr.)

Provides the student with knowledge of potential outcomes of preschool and elementary school motor development programs, ways to implement such programs, and appropriate movement experiences for young children. Also provides the student with opportunities for observing and teaching young children in a structured gymnasium setting.

Physics (PHYS)

100 Physics in the Modern World (5 cr.)

P: introductory high school mathematics. Ideas, language, methods, and impact of physics today. Includes lab.

14000 Short Courses in Physics (1 cr.)

Five-week short courses on a variety of topics related to the physical world. Examples of topics include: "Waves and Particles Are the Same Thing," "Relativity," "Quarks and Other Inhabitants of the Zoo," "Why Things Work and Why They Don't," "Lasers and Holography," and "The Physics of *Star Trek*."

15200 Mechanics (4 cr.)

P or C: MATH 164. 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; simple harmonic and wave motion. For more information, visit our Web site (www.physics.iupui.edu). Includes lab. Equivalent to IU PHYS-P221.

20000 Our Physical Environment (3 cr.)

A nonmathematical introduction to physical concepts and methods by means of examples from daily life and current technological applications. Includes lab.

21800 General Physics (4 cr.)

P: MATH 151 or placement test. Mechanics, conservation laws, gravitation; simple harmonic motion and waves; kinetic theory, heat, and thermodynamics. This course is for students in technology fields. Includes lab.

21900 General Physics (4 cr.)

P: PHYS 218. Electricity, light, and modern physics. Includes lab.

P201 General Physics I (5 cr.)

P: MATH 151. Newtonian mechanics, wave motion, heat, and thermodynamics. Application of physical principles to related scientific disciplines, especially life sciences. Intended for students preparing for careers in the life sciences and health professions. Three lectures, one discussion section, and one two-hour laboratory period per week.

P202 General Physics II (5 cr.)

P: PHYS 201. Electricity and magnetism; geometrical and physical optics; introduction to concepts of relativity, quantum theory, atomic and nuclear physics. Three lectures, one discussion section, and one two-hour laboratory period per week.

P251 Heat, Electricity, and Optics (5 cr.)

P: PHYS 152. Heat, kinetic theory, elementary thermodynamics, and heat transfer. Electrostatics, current electricity, electromagnetism, and magnetic properties of matter. Geometrical and physical optics. Includes lab. Equivalent to IU PHYS-P222.

Political Science (POLS)

Y101 Introduction to Political Science (3 cr.)

An introduction to the major subfields of political science, including international relations, comparative politics, and political theory.

Y103 Introduction to American Politics (3 cr.)

An introduction to the key features and dynamics of politics and government in the United States. The course includes the origins of American government, the constitution, and the branches of federal government (presidency, Congress, and judicial system). Students also look at the key problems and issues facing government and the American people today.

Y200 Contemporary Political Topics (variable title) (1–6 cr.)

This course offers an intensive analysis and discussion of selected contemporary political problems. Recent topics have included the problems of poverty, political protest, women in politics, the environment, and the problems of developing areas.

Y205 Elements of Political Analysis (3 cr.)

An introduction to the techniques used by people interested in the systematic study of political science. The course includes an introduction to the quantitative analysis of political data.

Y211 Introduction to Law (3 cr.)

An introduction to law as a means of dealing with social problems and as an aspect of the social and political system. The course offers an introduction to legal reasoning, procedures and materials, and usually includes a comparison of approaches to law in the United States and other societies.

Y213 Introduction to Public Policy (3 cr.)

An introduction to public policy: what it is, who makes it, how it is made, and what it means to U.S. citizens. The course offers several case studies looking at areas such as economic policy, welfare, civil rights and liberties, and environmental and foreign policy.

Y215 Introduction to Political Theory (3 cr.)

A survey of the major theories of political science and the major theorists, from Locke and Rousseau to Marx and Lenin.

Y217 Introduction to Comparative Politics (3 cr.)

An introductory survey of the different ways in which societies govern themselves. Students study politics in countries like Britain, Russia, Mexico, Nigeria, and Egypt, and make comparisons among them and the United States.

Y219 Introduction to International Relations (3 cr.)

Studies the relationships among countries, the nature of the global political and economic system, and the major institutions of international government (such as the United Nations). The course also looks at the key issues in international relations such as arms control, nuclear weapons, human rights, and war.

Psychology (PSY)

B104 Psychology as a Social Science (3 cr.)

Introduction to scientific method; individual differences; personality; and developmental, abnormal, social, and industrial psychology. Equivalent to IU PSY-P102 and PU PSY 120.

B105 Psychology as a Biological Science (3 cr.)

Research methods and content areas of learning, sensation-perception, psychophysiology, motivation, emotions, and statistics. Equivalent to IU PSY-P101 and PU PSY 120.

B252 Topics in Psychology (1–4 cr.)

Topics in psychology and interdisciplinary applications. May be repeated, provided different topics are studied, for a maximum of four credit hours.

B292 Readings and Research in Psychology (1–3 cr.)

P: consent of instructor. Independent readings and research on psychology problems. For freshmen and sophomores only.

B310 Life Span Development (3 cr.)

P: three credit hours of psychology. 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 between the various segments of the life span, are examined. Theory, research, and practical applications are equally stressed.

B380 Abnormal Psychology (3 cr.)

P: three credit hours of psychology. Various forms of mental disorders with emphasis on cause, development, treatment, prevention, and interpretation. Equivalent to IU PSY-P 324 and PU PSY 350.

Public and Environmental Affairs (SPEA)

E100 Environmental Topics (1–3 cr.)

Study of selected issues in environmental affairs. Topics vary from semester to semester. May be repeated for credit.

E162 Environment and People (3 cr.)

An interdisciplinary examination of the problems of population, pollution, and natural resources and their implications for society.

H120 Contemporary Health Issues (3 cr.)

The organization and costs of health systems, access to care, and the interrelationships between risk factors and health; environmental challenges facing our society and their impact on health.

J101 The American Criminal Justice System (3 cr.)

Introduction to the criminal justice system of the United States and its function in contemporary society.

J150 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 service, emergency management, criminal justice, and the private security sector play in securing public safety in the United States.

J201 Theoretical Foundations of Criminal Justice Policies (3 cr.)

P: J101. 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.

J202 Criminal Justice Data, Methods, and Resources (3 cr.)

P: J101. 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.

J222 Murder in America: Causes and Consequences (3 cr.)

An investigation of homicide in the United States. Focus is on the level and nature of homicides as well as domestic homicides, serial and mass murder, race, ethnicity, drugs and alcohol, school and workplace homicides, investigation, profiling, the death penalty and homicide prevention, and intervention programs.

J260 Topics in Criminal Justice (1–3 cr.)

Study of selected topics in criminal justice. Topics vary from semester to semester. Offered with no prerequisites and is open to all majors and first-semester students.

J272 Terrorism and Public Policy (3 cr.)

This course surveys terrorism in democratic societies with an emphasis on public policy responses designed to combat terrorism. Overviews of terrorist organizations in various countries are interspersed with analyses of significant terrorist events, public policies, and legal and public safety responses the events create.

V100 Current Topics in Public Affairs (1–3 cr.)

Readings and discussions of current public issues and problems. May be repeated for credit.

V170 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.

V221 Nonprofit and Voluntary Sector (3 cr.)

This course provides a broad overview of the nonprofit sector in the United States. 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; looks at current challenges the sector faces.

V252 Career Development (1-3 cr.)

Course highlights include: identification of work values and personality preference, a career research assignment, networking assignments designed to prepare students for contact with employers, in-depth tutorial and feedback concerning how to craft a marketable resume and cover letters and development of overall career development plan.

V260 Topics in Public Affairs (1–3 cr.)

Study of selected issues in public affairs. Topics vary from semester to semester. May be repeated for credit.

V261 Computers in Public Affairs (3 cr.)

An introduction to computer applications in public affairs. Topics include basic terminology, core concepts, and issues associated with managing operating systems, designing networks, and applying user information technology to public affairs problems. Issues of security and ethics in computing are also considered. Credit not given for both SPEA-V261 and BUS-K201.

V263 Public Management (3 cr.)

An examination of the management process in public organizations in the United States. Special attention will be given to external influences on public managers, the effect of the intergovernmental environment, and, in particular, problems of management in a democratic, limited government system.

V264 Urban Structure and Policy (3 cr.)

An introduction to urban government and policy issues. Topics include urban government structure and policy making, the economic foundations and development of cities, demography of cities and suburbs, land-use planning, and other selected urban policy problems.

V268 American Humanities Topics (1–3 cr.)

Topics covering specific American humanities competencies reflecting the particular needs and interests of participating students and the local advisory board for the program. Topics may include risk management, fundraising, board and committee development, and nonprofit marketing. Topics vary from semester to semester. May be repeated for credit.

V272 Terrorism and Public Policy (3 cr.)

A survey of the incidence of terrorism in democratic societies with particular emphasis on public policy responses designed to combat terrorism in cities. Overviews of ongoing conflicts with terrorist organizations in various countries are interspersed with analyses of significant terrorist events and the public policies and responses such events create.

Religious Studies (REL)**R111 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.

R133 Introduction to Religion (3 cr.)

Introduction to the diversity of traditions, values, and histories through which religion interacts with culture. Emphasis on understanding the various dimensions of religious influence on people's lives.

R173 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.

R180 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.

R243 Introduction to the New Testament (3 cr.)

An introduction to the modern critical study of the New Testament from primarily a historical perspective. The goal is to learn to view these diverse Christian writings within the context of their historical and social settings.

R257 Introduction to Islam (3 cr.)

Introduction to the "religious world" of Islam: the Arabian milieu before Muhammad's prophetic call and the career of the Prophet. Qur'an and hadith, ritual and the "pillars" of Muslim praxis, legal and theological traditions; mysticism and devotional piety, reform and revivalist movements.

Social Work (SWK)

S100 Understanding Diversity in a Pluralistic Society (3 cr.)

P or C: ENG-W131. 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. Service learning option available.

S141 Introduction to Social Work (3 cr.)

P or C: ENG-W131. 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. Students planning to apply for the B.S.W. program must have taken or be currently enrolled in this course. Satisfactory completion (with a C or higher) is required for admission consideration to the B.S.W. program. Service learning and online options available.

S180 Exploring Child Welfare in Indiana (3 cr.)

P or C: ENG-W131. This service learning course provides a comprehensive overview of child services with special emphasis on current child abuse, neglect, protection, and services in Indiana. Topics covered will include the historical roots of child welfare services, societal and personal risk factors for child abuse and neglect, and an overview of the types of services provided to children and their families. Service learning option available.

S200 Introduction to Case Management (3 cr.)

P or C: ENG-W131. Explores current models of case management. Addresses emerging case manager's functions and roles within the contemporary network of human services. This is a required course to fulfill requirements for the Certificate of Case Management; may also be taken as an elective. Service learning and online options available.

S221 Human Behavior and Soc. Environment I: Individual Functioning (3 cr.)

P: S141 or permission of instructor. P or C: ENG-W131. Understanding human development and functioning at all system levels as a basis for social work practice. Emphasizes the interaction between the person and family, groups, and communities. Coverage of major theories of individual functioning, life cycle development, and the family context. Exploration of inequality, discrimination, and differential access to opportunities for diverse populations. Service learning and online options available.

S251 Emergence of Social Services (3 cr.)

P: S141 or permission of instructor. P or C: ENG-W231 and HIST-H106. Examination of the evolution of social services in response to human needs and social problems as related to economic, political, and social conditions. Online option available.

S300 Global Society: Human, Economic, Social, and Political Issues (3 cr.)

P or C: ENG-W231. The purpose of this course is to examine a range of issues, including human rights, distribution of wealth, ethnic diversity, and social development within a global interdependent context. Problems of global poverty, social injustice, and inequality will receive special attention.

Sociology (SOC)

R100 Introduction to Sociology (3 cr.)

P: placement in ENG-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.

R121 Social Problems (3 cr.)

P: R100 or consent of instructor. 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.

R234 Social Psychology (3 cr.)

P: R100 or consent of instructor. Sociological approach to human character with emphasis on the psychology of the individual in social situations. Topics include socialization and the self, language and communication, interpersonal relations, attitude formation, conformity and social influence, and group processes.

R240 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.

R285 AIDS and Society (3 cr.)

P: R100 or consent of instructor. 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.

R295 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.

Spanish (SPAN)

S117-118-119 Beginning Spanish I-II-III (3-3-4 cr.)

Introductory language course designed for students with no prior training in Spanish. One hour each week outside of class is required for practice in the language laboratory. Three semesters are required to fulfill the foreign language requirement. Credit not given for both S117-S118-S119 and S131-S132. Students with two years or more of high school Spanish will receive the grade of S or F.

S131-132 Intensive Beginning Spanish I-II (5-5 cr.)

Intensive introduction to present-day Spanish with drills for mastery of phonology, basic structural patterns, and functional vocabulary. Required attendance in the language laboratory of one hour per week each semester. Credit not given for both S117-S118-S119 and S131-S132.

S203 Second-Year Spanish I (4 cr.)

P: 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.

S204 Second-Year Spanish II (4 cr.)

P: 10–14 credit hours of college-level Spanish or placement by testing. Continuation of S203.

Statistics (STAT)

11300 Statistics and Society (3 cr.)

Intended to familiarize students with basic statistical concepts and applications in public and health policies as well as in social and behavioral sciences. No mathematics beyond simple algebra is needed, but quantitative skills are strengthened by constant use. Involves much reading, writing, and critical

thinking through discussions on such topics as data ethics, public opinion polls and the political process, the question of causation, the role of government statistics, and dealing with chance in everyday life. Applications include public opinion polls, medical experiments, smoking and health, the consumer price index, state lotteries, etc. Can be used for general education or as preparation for later methodology courses.

30100 Elementary Statistical Methods I (3 cr.)

P: MATH 111 or 110 or equivalent. Not open to students in the Department of Mathematical Sciences. 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, correlation, and regression. Software is used throughout.

Technical Communications (TCM)

22000 Technical Report Writing (3 cr.)

P: ENG-W131 or equivalent. Extensive application of the principles of clear writing in business and industry with emphasis on adaptation to the audience, organization of ideas, and a concise, objective writing style.

Tourism, Conventions, and Event Management (TCEM)

10000 Introduction to Tourism Studies (3 cr.)

An overview of the industries. Management theory and responsibilities in addition to career paths are presented.

11200 Tourism and Hospitality Management Principles (3 cr.)

Factors involved in establishing an institution; business policies and decision making; departmental organization and administrative development, including management experience; job analysis and evaluation; salary and wage structures; employee benefits; personnel selection; and employment practices, including allocation of labor.

17100 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 interaction of each.

17200 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.

18100 Lodging Industry Operations (3 cr.)

Concepts of organization, communication, ethics, and policy formulation in the front office. Introduction of the basic techniques and trends in systems and equipment available to meet the needs of management and guests.

21000 Special Events 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.

21900 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.

23100 Marketing Tourism and Hospitality (3 cr.)

Development, use, and evaluation of effective merchandising, advertising, and public relations techniques in the hospitality and tourism industries.

24100 Financial Accounting for the Service Industries (3 cr.)

P: PHIL P162 Fundamental accounting principles and procedures applied to the hospitality and service industries. Includes study of the uniform system of accounts, financial statements, special purpose journals, and subsidiary ledgers unique to the hospitality and service industries.

25200 Promotional Communications (3 cr.)

P: ENG W231 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.

27100 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, and evaluation and wrap-up.

University College (UCOL)**U110 Learning Community (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.

U112 Critical Inquiry (1 cr.)

This course facilitates the acquisition of collegiate academic skills for first-year students by identifying and applying strategies such as critical thinking, independent learning, reading, writing, and information management in relation to a specific academic discipline. Requirements and formats vary according to the introductory discipline course to which it is linked.

Women's Studies (WOST)**W105 Introduction to Women's Studies (3 cr.)**

This introductory course examines 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 national and international contexts.

SCHOOL CERTIFICATION REQUIREMENTS**Art and Design (Herron)**

Students must complete 12 credit hours, have a cumulative 2.5 GPA, and submit an application by the deadline, depending upon which semester they want to transfer to the Herron School of Art and Design.

For University College students planning on transferring to Herron for a spring semester, the application deadline is October 1. For University College students planning on transferring to Herron for a summer and fall semester, the application deadline is March 1.

Business

Admission to the school is by application only. Option 1 requires a minimum GPA of 2.7 and 26 credit hours. Option 2 requires a minimum GPA of 2.0 and 56 credit hours. Meeting minimum requirements does not guarantee admission.

Dental Hygiene

This is a competitive major. Students must apply to the program. A science GPA of 2.5 and a cumulative 2.5 GPA for all college work are the minimum needed to apply.

Education

Students must successfully complete 12 credit hours and have a cumulative 2.5 GPA. Certification to the School of Education is not the same as admission to the Teacher Education Program, which requires a separate formal application along with additional course and testing requirements. Information about the specific requirements can be found on the degree curriculum checksheet.

Engineering Programs

Students must complete ENG-W131, be ready for MATH 16300 and CHEM-C105, and complete a total of 12 credit hours of required courses. Students must have a cumulative 2.0 GPA.

Engineering and Technology

If dismissed by Purdue or the Engineering and Technology program at IUPUI, students must apply for reinstatement to the school (unless switching to an IU school). If students are on transfer probation, certification is not immediate.

Forensic and Investigative Sciences

Students must complete CHEM-C105 and C125 or BIOL-K101 with a C- or higher.

General Studies

Students must have a cumulative 2.0 GPA. Students without previous college credit should be high school graduates or possess a GED. Students should be able to document a significant amount of work and/or related life experience and also be able to articulate a need for a flexible interdisciplinary degree program. Students apply directly to the School of Continuing Studies for acceptance.

Health Information Administration

Students must complete 12 credit hours of non-remedial courses and have a cumulative 2.0 GPA.

Health Professions Programs

All IU School of Medicine Health Professions Programs have prerequisite courses that students must complete by the program's stated term of entry. In addition to completing the stated prerequisites, students must meet all of the program's admissions criteria and submit an application by the deadline. Most qualified applicants submitting an application are invited for an interview. However, some programs do restrict the number of interviews to twice the program's capacity. Please note that completion of prerequisite courses and meeting the GPA requirements do not guarantee admission. The available programs, application deadlines, and terms of entry are shown below:

A.S. in Paramedic Science: October 1 (spring entry)

A.S. in Paramedic Science: February 1 (fall entry)
A.S. in Radiography: November 15 (second summer session entry)
B.S. in Clinical Laboratory Science: December 1 (fall entry)
B.S. in Cytotechnology: December 1 (fall entry)
B.S. in Medical Imaging Technology: November 15 (second summer session entry)
B.S. in Nuclear Medicine Technology: November 15 (second summer session entry)
B.S. in Radiation Therapy: December 1 (second summer session entry)
B.S. in Respiratory Therapy: January 1 (fall entry)

Please refer to the IU School of Medicine Health Professions Programs section of the IUPUI Campus Bulletin for all program requirements.

Informatics

Students must complete 12 credit hours of non-remedial courses and have a cumulative 2.0 GPA.

Journalism

Students are required to complete at least 26 credit hours, including ENG-W131 (with a C or better), JOUR-J110 (with a C or better), MATH-M118 (with a C or better), and the first semester of any foreign language. Also, a minimum cumulative GPA of 2.2 is required.

Liberal Arts

Students must have a cumulative 2.0 GPA, declare a liberal arts major, and be currently enrolled. If students are below the GPA requirement, they should petition the School of Liberal Arts by the appropriate deadline.

New Media

Students must complete 12 credit hours of non-remedial courses and have a cumulative 2.0 GPA.

Nursing

Students must complete a School of Nursing admission application, apply by the appropriate deadline, and be accepted to the program.

Organizational Leadership and Supervision Programs

Students must successfully complete ENG-W131, have a cumulative 2.3 GPA, and complete at least one of the math courses that apply toward the OLS degree (students should check the current curriculum checksheet).

Physical Education

Students must declare a plan of study, complete 12 credit hours, and have a cumulative GPA of at least 2.2. The following courses are recommended: ENG-W131 and MATH 111 only (C or above). The Department of Physical Education has several plans of study: exercise science, exercise science pre-med, exercise science pre-occupational therapy, exercise science pre-physical therapy, fitness studies, sport management, teacher education-health education with physical education, and teacher education-health education with physical education and adapted physical education.

Public and Environmental Affairs

Students must declare a SPEA major; complete 12 credit hours of academic work with a cumulative and previous semester GPA of 2.0 and a 2.3 GPA in SPEA courses and complete ENG-W131 or equivalent with a grade of C or better. Public Affairs majors (Management, Civic Leadership, Policy Studies) must have completed SPEA-V170 Introduction to Public Affairs or its equivalent with a passing grade. A

student who meets all of the previous admission requirements except completion of V170 must complete this course by the end of the 1st semester in SPEA.

Science

Students must have an overall 2.0 GPA or higher and meet the prerequisites listed below:

Biology and Biotechnology Majors: BIOL-K101 or CHEM-C105/CHEM-C125 with a grade of C+ or better, or both courses with grades of C or better. Students with grades below C—in any science course, including those science courses that have been repeated where the original course grade was below a C—, will not be admitted. The overall grade point average in all science courses must be 2.0 or higher. Students must pass science and math courses on the first attempt. Students may appeal to the department if they receive less than a C.

Chemistry Majors: CHEM-C105/CHEM-C125 with a grade of C+ or better, or CHEM-C105/CHEM-C125 and CHEM-C106/CHEM-C126 with grades of C or better.

Computer Science Majors: CSCI 2300 with a grade of C+ or better and completed 12 credit hours at IUPUI.

Environmental Science Majors: BIOL-K101, CHEM-C105, GEOL-G109, GEOL-G110, or PHYS-P201 with a grade of C or better.

Forensic and Investigative Science Majors: BIOL-K101 or CHEM-C105/CHEM-C125 with a grade of C or better.

Geology Majors: GEOL-G109 or GEOL-G110 with a grade of C+ or better.

Mathematics Majors: MATH 16300 with a grade of C+ or better.

Physics Majors: PHYS 15200 or MATH 16300 with a grade of C+ or better.

Psychology Majors: PSY-B104 or PSY-B105 with a grade of C or better.

Social Work

Students must complete prerequisite work, submit an application, and be accepted to the program. A minimum cumulative 2.5 GPA is required. Students must complete 12 credit hours and SWK-S141 with a grade of C or better.

Sports Management and Fitness Studies

Students must complete 12 credit hours, complete ENG-W131 (with a C or above), be ready for Math 11100, and have a cumulative GPA of at least a 2.2.

Technology Programs

Students must complete MATH 11100 with a C or better, or be ready for MATH 15300 (not MATH 16300). Be ready for ENG-W131 and have a cumulative 2.0 GPA.

Tourism, Conventions, and Event Management

Students must successfully complete ENG-W131 (with a C or above), be ready for Math 11000, and have a cumulative GPA of at least a 2.2.