

Course Descriptions

Scheduling Codes: Scheduling codes are primarily for day classes during Semester I and II; they may not reflect the scheduling of evening or summer classes.

Note: These codes are a guide for projected scheduling of courses; departments reserve the right to modify course offerings when special circumstances arise. Consult the appropriate department for details.

Y.....Every year	O.....Every other year
N.....May not be offered every year	D.....On sufficient demand
SI.....Semester I every year	O/SI.....Every other year Semester I
SII.....Semester II every year	O/SII.....Every other year Semester II
A.....Every semester	

Accounting Courses

Accounting courses are offered through the School of Business. Information about the school and its majors and minors can be found in the section entitled Academic Units.

ACCT-210 Financial Accounting (3) SI

The first course in a six-hour sequence, it introduces the basic principles and theories of accounting. This course focuses on the financial accounting system, which supports the needs of external decision makers. It includes an introductory study of the regulatory environment of accounting, the format and content of general purpose financial statements, the accounting cycle, and the impact of transactions on the financial statements and its elements.

ACCT-212 Managerial Accounting (3) SII

The second course in a six-hour sequence, it introduces the basic principles and theories of accounting. This course focuses on the managerial accounting system, which supports the needs of internal decision makers. It includes an introductory study of cost behavior, alternative approaches to product costing, the use of cost-based accounting in managerial decision-making, and performance management issues. *Prerequisite: ACCT-210.*

ACCT-310 Intermediate Accounting I (3) SI

The first course in a six-hour sequence providing an in-depth study of the strategic components of financial accounting, including the theoretical framework underlying financial reporting, the accounting cycle, and the makeup of general purpose financial reports. Additionally, this course studies particular financial statement elements by looking at valuation, classification, and disclosure issues. *Prerequisite: ACCT-212.*

ACCT-311 Intermediate Accounting II (3) SII

The second course in a six-hour sequence, it provides an in-depth study of the strategic components of financial accounting. This course continues with the study of financial statement elements begun in ACCT 310, specifically focusing on valuation, classification, and disclosure issues associated with investing, long-term financing, equity transactions, and other related issues such as cash flows. *Prerequisite: ACCT-310.*

ACCT-312 Cost Accounting (3) SI

This course extends the study of cost and managerial accounting begun in ACCT 212. It includes a more focused exploration of product costing systems using both traditional and activity-based approaches and a more advanced treatment of the use of cost-based and other information to support management decision making and performance management at operational, tactical, and strategic levels. *Prerequisite: ACCT-212.*

ACCT-314 Accounting Information Systems (3) SII

Course examines issues relevant to the accounting information system of any type of organization. A business process approach is used to illustrate how accounting information flows through an organization and its effect on information system integration and internal control. This course considers the use of technology and its value-creating potential. *Prerequisite: ACCT-310, COMP-150, and CIS-151.*

ACCT-321 Financial Statement Analysis (3) SII

This course studies general purpose financial statements (Balance Sheet, Income Statement, Statement of Cash Flows, Statement of Stockholders' Equity, and supporting footnotes) from the perspective of those who use the information found in them. In this course, the primary users of accounting reports are assumed to be informed decision-makers who are not employed by the company being analyzed—bankers, investors, and government regulators. After studying a corporation's major business activities (financing, investing, and operating), the course will concentrate on prospective analysis, credit, and profitability, designed to allow decision-makers the ability to use general purpose financial statements in an effective and informative way.

ACCT-412 Advanced Accounting (3) SI

This course studies complex financial accounting topics dealing with the equity method, consolidated financial statements, foreign currency translation, governmental and not-for-profit accounting, and accounting for partnerships. *Prerequisite: ACCT-311.*

ACCT-418 Auditing (3) SII

This course explores the theories, principles, and procedures underlying the attest function. Topics studied include the basic audit report, fundamental issues of internal controls, documentation of audit evidence, and the requirements of professional ethics. *Prerequisite: ACCT-412.*

ACCT-419 Individual Income Tax (3) SI

Study of federal (U.S.) income tax for individuals. Course includes computation of gross income, deductions, property transactions, and tax credits available to the individual taxpayer. *Prerequisite: ACCT-212.*

ACCT-465 Corporate, Partnership, Estate, and Trust Taxes (3) SII

Course involves advanced study of current tax laws and related filings for corporations, partnerships, estates, and trusts. *Prerequisite: Senior standing.*

Anthropology Courses

Anthropology and Archeology courses are offered through the Anthropology Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

ANTH-100 Cultural Anthropology (3) A

Introduction to culture, the basis of all anthropological thought. The course looks at how culture dictates many areas of societal behavior, both materially and intellectually, and concentrates on the universals and variables of "the human way of life" as illustrated by comparing lifestyles across the world.

ANTH-109 Anthropology Freshman Seminar (1) SI

General orientation to the Anthropology and Archeology curricula, including general concepts, academic literature, and basic writing skills in these professions. Required of all freshman departmental majors. *Prerequisite: Freshman standing.*

ANTH-110 Archeology Method and Theory (3) O/SI

Introduction to archeology, the study of material remains and a subfield of anthropology. The course examines contemporary theory and analytical and field methods, relationships between material and nonmaterial culture, and applications of archeology to a greater understanding of our past and present.

ANTH-130 Monkeys, Apes, and Humans (3) SII

Introduction to scientific analysis by way of biological anthropology. Topics of study include the scientific method, primate anatomy, heredity, and primate behavior. Anatomical and historical links between humans and nonhuman primates are explored as well. (*Cross-listed as BIOL-130.*)

ANTH-200 Global Problems (3) SII

Consideration of dimensions surrounding the basic human problems of overpopulation, pollution, indigenous peoples, violence, international tensions, drugs, food, and related concerns. Frequent comparisons with diverse cultures show students the shared problems of humankind and a variety of responses, familiar and unfamiliar, that cultures develop.

ANTH-205 Human Biological Variation (3) SI

Study of the pattern and nature of human biological variation, including adaptation to the environment, growth and development, race, gender, and determinants of behavior. (*Cross-listed as BIOL-210.*) *Prerequisites: Mathematics proficiency through MATH-105 and English proficiency.*

ANTH-210 The Eskimo World (3) O/SI

Focus on awareness of Eskimo (Inuit and Yupik) lifeways, filling in myriad details about how they carried on from day to day, what they believed, where they lived, and why they thrived so ingeniously in such seemingly severe environments. Students will learn about these cold-adapted peoples through books, films, photography, artworks, and artifacts.

ANTH-220 North American Archeology (3) O/SI

Introduction to human lifeways in North America from the earliest occupations through first contact with European colonists. Topics include subsistence and diet, social organization, conflict, architecture, gender, and technology. Students can expect to handle artifacts from 100 to 10,000 years old.

ANTH-251 Classical Archeology (3) O

Introduction to the specialized field of archeology that studies the material cultures of the ancient Greeks and Romans. Topics include art, architecture, numismatics, writing, daily life, and religion.

ANTH-290 Images of "Indians" (3) O

A critical look at Euro-American perceptions of American Indians, focusing on long-term trends in how "Americans" have depicted "Indians," how some of those representations have changed through time, and how others have remained (or disappeared and later reemerged). The heart of this course is an introspective and reflective look at views of American Indians, along with attempts to identify attitudes that such viewpoints reflect.

ANTH-310 Religion and Magic (3) O

Review of traditional practices of non-mainstream religions, providing a cross-cultural perspective on such topics as spirit beings, natural and supernatural forces, taboos, magic, witchcraft, sorcery, divination, healing, shamanism, totemism, death, ghosts, afterworlds, and revival cults. (*Cross-listed as REL-350.*)

ANTH-335 Medical Anthropology (3) O/SI

Cross-cultural introduction to the range and nature of ideas, theories, contributions, multiple perspectives, and findings characteristic of this field. Topics include health-related issues in various social settings; correlations between social inequality and disparities in health; the impacts of social behavior, evolution and adaptation, globalization, and ecology of health; ethnic diseases; commodification of body parts; and cultural notions of health, illness, and healing. *Prerequisite: ANTH-100.*

ANTH-345 Human Evolution (3) SII

Broad study of aspects of human evolution, including evolutionary theory; fossil and archeological evidence; aspects of comparative anatomy, behavior, and ecology; and the genetics and variation of modern human populations in order to reconstruct our species' biological and cultural prehistory. (*Cross-listed as BIOL-345.*) *Prerequisites: BIOL-160/161 or ANTH-205/BIOL-210.*

ANTH-350 Internship in Anthropology or Archeology (1-4) D

Field placement designed to expose methods used in actual practice, help merge classroom theory with practice, and aid in career exploration and planning. The student is supervised by a professional at the internship site, usually a museum, as well as by a faculty member. *Prerequisites: Junior or senior standing; major or minor in anthropology or archeology; GPA of 2.3 or above, or consent of instructor.*

ANTH-360 Cultural Linguistics (3) D

Beginning with a survey of linguistics, the course presents a series of directed investigations into various aspects of the pivotal relationship between human languages and cultures and examines several aspects of how language use reflects one's own culture as well as the cultures of other societies. (*Cross-listed as LANG-360.*)

ANTH-370 Archeology Laboratory Methods (4) O

Introduction to the tools and techniques of handling and processing archeological artifacts and reporting the results. Various skills include classifying, analyzing, and cataloging diverse materials; photography, cartography, and line drawing; and preservation and conservation.

ANTH-375 Archeology Field Methods (3) O

Not taught in a fieldwork setting, the content focuses on basic skills and background necessary to do many kinds of field recording and excavation: digging, mapping, site sampling, remote sensing, and dating, and preserving, conserving, and handling archeological materials.

ANTH-380 Field Archeology (1-6) O

An opportunity to participate in field research, this course introduces the basic work of archeology as practiced in the field. Occasionally projects are away from campus and some require extended periods of group living and/or camping. One credit hour per week of work (usually one or two days off per week).

ANTH-390 Osteoarcheology (4) O/SII

This course examines human skeletal remains from archeological contexts. Students gain proficiency in identifying fragmented bones, aging and sexing skeletons, and determining ancient diets and diseases. *Prerequisite: ANTH-130.*

ANTH-405 Technical Photography (3) D

Concentrating on color photography, the course covers films, equipment, and camera operation; controlling and calculating light and focus; lighting, magnification, filters, and color enrichment; advanced techniques; image analysis; and problem solving. Special emphases on close-focus and close-up work, plus outdoor pho-

tography and possibly digital photography. *Prerequisite: Junior or senior standing, or consent of instructor. Does not fulfill general education core Fine Arts applied requirement.*

ANTH-410 Experiencing Other Cultures (3) D

Course designed for those planning to work with people from cultural settings foreign to their own, those expecting to travel or to live outside the United States, and even those who are simply interested in a hands-on class. The curriculum demonstrates techniques for coping cross-culturally in positive ways and for learning from and about different cultures and also includes local field trips.

ANTH-411 Human Biology and Culture (3) D

A study of the interactions of biology and human culture. Topics may include human sociobiology, human ecology, nutrition, reproduction, demography, and disease. *(Cross-listed as BIOL-411.) Prerequisites: Mathematics proficiency through 105 and English proficiency; BIOL-210 recommended.*

ANTH-425 Dental Science (3) O/SII

Teeth are a very significant component of any analysis of a skeleton from any context, including archeological, paleontological, and forensic. Designed for those interested in dentistry and other health sciences, anthropology, and biology, this course intensively studies the anatomy, histology, use, and evolution of teeth. *(Cross-listed as BIOL-425.) Prerequisite: ANTH-130.*

ANTH-430 Special Topics (3) N

Study of a particular area of anthropology not covered comprehensively in one of the other advanced courses. The topic for a given semester is announced prior to registration for the semester and is responsive to student needs and interests. A student may receive credit more than once for ANTH-430 if a different topic is covered each time.

ANTH-450 Human Osteology (4) SII

In-depth examination of the anatomy and physiology of the human skeletal system. Functional aspects will be considered for each bone or bone complex in the body. In addition, such issues as paleopathology, paleodemographic reconstruction, forensic anthropology, and osteoarcheology will be addressed. Three lectures and one two-hour laboratory period per week. *(Cross-listed as BIOL-450.) Prerequisite: BIOL-160/161 or ANTH-205/BIOL-210.*

ANTH-470 Archeology Seminar (3) D

Review of professional behavior governing the conduct of archeology, especially in the United States. Subjects include federal, state, and local laws concerning archeology, the principles of archeological ethics, and case studies of such issues as artifact repatriation, cooperating with Native peoples, site looting, and private collecting. *Prerequisite: Junior or senior standing.*

ANTH-475 Anthropology Seminar (3) D

Focus on anthropological field skills by finding and studying a micro-culture (a “culture in miniature”). Techniques involve various kinds of interviewing, analysis, and interpretation, leading to each student’s ethnographic description of her/his selected culture. Related topics embrace anthropological ethics, critical thinking, and academic writing. *Prerequisite: Junior or senior standing.*

ANTH-480 Advanced Field Archeology (1–6) O

Field opportunity for students who have had at least one previous archeology field experience. The course focuses on advanced techniques and methods for site location, exploration, and/or excavation. Some projects

require extended periods of group living, and/or camping, off campus. One credit hour per week of work (usually one day off per week). *Prerequisite: ANTH-380 or other acceptable field archeology experience.*

Applied History Courses

AHIS-452 “Hands-On” Indianapolis (3) D

A study of local history through the methods of Applied History, the course focuses on the city of Indianapolis. Required for the Interdisciplinary Applied History Minor. This course is not open to freshmen.

AHIS-472 Applied History Theory and Methods (3) D

Examines the uses of social history in an Applied History setting. The course exposes students to the theoretical literature and methodologies of the field. Required for the Interdisciplinary Applied History minor. This course is not open to freshmen.

Art and Design Courses

Art courses are offered through the Art and Design Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

ART-100 Art Experience (2) A

Exploration of studio art skills and media for the general education requirement. Content varies. Each section concentrates on a single discipline such as drawing, ceramics, or calligraphy. May be repeated for credit in different media, and simultaneous enrollment in two sections (in different media) is allowed. *Does not count toward art major or minor.*

ART-101 Introduction to Computers for Artists (3) SI/SII

Introduces the capabilities, applications, and uses of computers for artists. Includes an introduction to the current basic software packages used in the field of art.

ART-105 Freshman Seminar for Art Majors (1) SI

Orientation for freshmen to the University in general and the Art Department in particular. Course is designed to meet the unique needs of art students and includes a guest artist/field trip component to introduce central Indiana organizations and institutions that support the professional development of student artists.

ART-110 Art Appreciation (2) A

Exploration of the visual arts with emphasis on media, design principles, and the place of art in human society, past and present.

ART-120 Fundamentals of Two-Dimensional Design (3) SI

Study of the organization of art forms and the principles of design and color in two dimensions.

ART-130 Beginning Drawing (3) SI

Introduction to basic drawing media, techniques, and formal issues. Emphasis on drawing from still lifes, nature, and imagination.

ART-140 Fundamentals of Three-Dimensional Design (3) SII

Exploration of common materials with emphasis on creative construction in three dimensions.

ART-150 Beginning Oil Painting (3) SII

Introduction to oil painting. Emphasis on exploring technical aspects and understanding of compositional elements in painting still lifes and landscapes.

ART-160 Introduction to Art Therapy (3) O/SII

Survey of the fundamental concepts, history, and uses of the visual arts in a therapeutic context.

ART-170 Introduction to Visual Communication Design (3) SII

Introduction to the language and processes of effective visual communication design. Exploration of design principles as they apply to visual communication design, using both traditional media and computer applications. *Prerequisite: ART-101 and ART-120 or consent of instructor.*

ART-200 Painting II (3) SII

Further exploration of oil painting techniques and compositional structure. Emphasis on the figure and contemporary conceptual issues. *Prerequisite: ART-150, ART-290.*

ART-210 Intaglio (3) SI

Introduction to intaglio printmaking techniques, including nontoxic and photosensitive processes. *Prerequisites: ART-120 or consent of instructor.*

ART-220 Ceramics—Hand Building (3) SI/SII

Introduction to the properties of clay with emphasis on basic techniques of hand-building, decorating, glazing, and firing the kiln. *No prerequisite.*

ART-230 Ceramics—The Potter's Wheel (3) SI/SII

Introduction to the properties of clay with emphasis on basic techniques of working on the potter's wheel, decorating, glazing, and firing the kiln. *No prerequisite.*

ART-245 Art Practicum (2) SII

Students read in art criticism and aesthetics, discover career options in art and opportunities for community involvement, take and prepare visual images, complete a juried exhibition prospectus, learn art organizations and publications, and prepare an art résumé. *Prerequisite: Sophomore standing.*

ART-250 Typography and Computer Imagery I (3) SI

Introduction to typography; including an introduction to basic terminology, factors of legibility, and visual/verbal integration. *Prerequisite: ART-170.*

ART-255 Typography and Computer Imagery II (3) SI

Continuation of ART-250, with greater emphasis on creative expressiveness and sophisticated manipulation of computer software. *Prerequisite: ART-250.*

ART-261 Digital Photography I (3) SI

Introduction to digital camera and image manipulation techniques as well as issues dealing with photography as fine art. Assignments require that the student find creative photographic solutions to problems in form and content. Students must have a digital camera capable of aperture priority, shutter priority and manual shooting modes. *No prerequisite.*

ART-271 Digital Photography II (3) A

Continuation of ART-261 with further development of aesthetic and technical expertise. Emphasis is on production of exhibition-quality work. Students must have a digital single lens reflex camera equipped with a zoom lens. *Prerequisites: ART-261 or consent of instructor.*

ART-275 Computer Utilization for Visual Communication Design (3) SII

This course expands on skills in software applications used in the practice of visual communication design. Projects emphasizing visual/verbal integration, clear communication, and typographic expressiveness will be explored. *Prerequisites: ART-250 or consent of instructor.*

ART-280 Teaching of Elementary School Art (3) SII

Preparation for the teaching of art in elementary grades. Basic skills, techniques, and materials are discussed, evaluated, and handled so that the student becomes acquainted with suitable forms of expression in art and its relationship to the total curriculum.

ART-281 History of Western Art I (3) O/SI

Visual analysis of selected works from the history of Western art. This semester defines terms, processes, and principles of architecture, painting, sculpture, and graphics from prehistoric to Renaissance periods.

ART-282 History of Western Art II (3) O/SII

Visual analysis of selected works from the history of Western art. This semester examines style and subject matter from the early Renaissance to the 20th century.

ART-290 Drawing II (3) SI

Further exploration of drawing media, techniques, and compositional structure. Emphasis on the figure and contemporary conceptual issues. *Prerequisite: ART-130.*

ART-296 Visual Communication Design II (3) SII

Continuation of topics covered in ART-170: Introduction to VCD. Students continue to investigate problem-solving processes as well as the creative process of making images that communicate ideas and information. Students explore the potential of form and message in creating a visual language. *Prerequisites: ART-275 or permission of instructor.*

ART-297 Sophomore Portfolio Review (NC) A

Visual Communication Design and B.F.A. Studio Art majors are required to present a portfolio of their work to a committee of the faculty after completing 45 hours. Students will receive a satisfactory grade or an unsatisfactory grade. Any student receiving an unsatisfactory grade may be required to correct deficiencies in the portfolio with additional coursework.

ART-305 Painting III (3) A

Exploration of media and aesthetic issues in contemporary painting. Students are encouraged to try techniques not covered in other painting courses and/or develop an individual style. *Prerequisites: ART-200 or consent of instructor.*

ART-310 Serigraphy (3) SII

Introduction to silkscreen or serigraphy techniques as fine art. *Prerequisites: ART-120 or consent of instructor.*

ART-320 Ceramics (2–3) A

Research in ceramic materials and processes. *Prerequisites: ART-220 or 230 or consent of instructor.*

ART-325 Ceramics (2–3) A

Advanced individual work in ceramics with emphasis on perfecting techniques and developing a personal style. *Prerequisites: ART-220 or 230 or consent of instructor.*

ART-335 Jewelry and Metalwork (3) O

Exploration of basic techniques in forming and constructing decorative metal objects and jewelry.

ART-351 Art Methods for Elementary Classroom Teachers (2) A

Designed for the classroom teacher, an introduction to art fundamentals with methods, materials, and rationale for integrating art into the elementary curriculum. Must be taken concurrently with student teaching.

ART-355 Visual Communication Design III (3) SII

This class includes design projects that emphasize the importance of research, both scholarly and visual, as part of the design process, as well as focusing on problem-solving and experimentation. *Prerequisite: ART-296.*

ART-360 Graphic Production (3) SII

Study of commercial printing processes and papers, with projects that emphasize professional preparation of artwork and graphic design. *Prerequisite: ART-250 or consent of instructor.*

ART-361 Digital Photography III (3) A

Continuation of ART-271. *Prerequisite: ART-271.*

ART-371 Web Design I for Visual Communication (3) SI

An exploration of the software used in Web design with an emphasis on art forms and their relationship to the elements and principles of art. *Prerequisites: ART-170, 250, and 275 or permission of instructor.*

ART-372 New Media Design (3) SII

A continuation of ART-371 with greater emphasis on creative expression and sophisticated manipulation of time-based computer software. *Prerequisite: ART-371.*

ART-381 History of Graphic Design (3) SI

Survey of visual communication design history starting with the invention of writing and moving through contemporary graphic design. Emphasis placed on period from the Industrial Revolution to the present.

ART-384 Art Since 1900 (3) O/SI

This course introduces the vocabulary of visual arts in the 20th century. Major movements are briefly introduced with characteristic works in painting, sculpture, photography, printmaking, computer graphics, video, and environmental and performance art.

ART-387 History of Photography (3) SII

Survey of photography beginning with the Renaissance and moving through traditional and digital photography. Emphasis is on 20th century photography.

ART-389 Women in Art (3) O/SII

A survey of the role of women in the visual arts from prehistory to the present.

ART-391 Drawing III (3) A

Continuation of ART-290. *Prerequisite: ART-290.*

ART-410 Art in Print Communications (3) SI

Analysis in the role of the visual artist in corporate structures, with particular emphasis on advertising and publishing businesses. Students participate in several design projects that proceed from initial concept to finished product, modeling the work environment, integrating skills learned in prerequisite courses, and developing a portfolio. *Prerequisites: Senior standing with a VCD major.*

ART-415 Visual Communication Design IV (3) SII

Focuses primarily on the digital portfolio for senior students. Students will learn to use cutting-edge software to create a dynamic, interactive portfolio that will showcase their art work. This course will help students to sharpen their portfolios and get them ready to compete on the job market. *Prerequisites: ART-101, 120, 130 and 140 (Foundations); all other VCD major art classes including ART-371 Web Design I, and ART-372 Web Design II, or permission of instructor.*

ART-420 Internship in Visual Communication Design (1-4) A

Off-campus studio experience that provides student with firsthand application of visual communication principles and skills; a B average in art classes is required. *Prerequisite: Department approval required.*

ART-425 Intermediate Studio (1-4)

This class enables students to develop their artistic skills to a higher level. Students work in an already established class in either drawing, ceramics, painting, photography, or printmaking. An appropriate amount of production at an increasingly advanced level is expected for each hour of credit. May be repeated up to eight credit hours. *Prerequisite: Department approval required before registering.*

ART-430 Advanced Studio (1-4) A

This class enables students to develop their artistic skills to a more professional level. Students work in an already established class in either drawing, ceramics, painting, photography, or printmaking. An appropriate amount of production at an increasingly advanced level is expected for each hour of credit. May be repeated up to eight credit hours. *Prerequisite: Intermediate Studio or department approval required before registering.*

ART-431 Senior Studio in Visual Communication Design

Capstone senior experience in which students are required to submit a proposal for a major project. The project must support research and be reviewed and approved by faculty. *Prerequisite: Department approval required before registering.*

ART-440 Internship in Museum Work (1–4) A

Introduction to museum functions through observation and participation. On-site experiences may include work in exhibition installation, conservation, curatorial research, or other specialties. *Prerequisite: Department approval required.*

ART-450 Internship in Art Therapy (1–4) A

Provides student with firsthand experience in an institutional setting. Individual assignments are designed to meet the recommendations of the National Art Therapy Association for approved undergraduate art therapy programs. *Prerequisite: Department approval required.*

ART-470 Senior Portfolio (1) A

Capstone senior experience in which the student is required to develop a slide portfolio and prepare and mount a solo artist exhibition of representative work, write an artist's statement, and submit work to an off-campus juried exhibition. *Prerequisite: Senior standing in art major.*

ART-471 Senior Thesis (2) A

Capstone senior experience for studio art majors. The student is required to create a coherent body of work (in conjunction with an advanced studio class), write a research paper related to body of work, write an artist's statement, create a slide portfolio, prepare and mount a solo exhibition, prepare a résumé, and enter three off-campus juried exhibitions. *Prerequisite: Senior-standing requirement for studio art majors.*

ART-472 Portfolio and Internship Preparation (1) SII

Prepares visual communication design majors for ART-420, Internship in Visual Communication Design. Résumé preparation, interviewing skills, portfolio reviews, and options on the graphic organization of portfolios will be included. *Prerequisites: ART-250, 275 and 360 or consent of instructor.*

ART-475 Gallery Studies (1–3) A

Introduction to gallery functions through observation and participation. Experience includes communicating with artists, installation preparation and processes, gallery maintenance, and curatorial research. *Prerequisites: Junior standing and consent of instructor.*

ART-480 Special Topics in Art (3) D

Study of aspects of art media or history that do not receive focused attention in courses listed above. May be repeated for credit in different topics.

ART-485 Directed Readings in Art History (1–3) A

Selected topics from the history of art intended for students who need additional art history beyond what is normally offered by the art department. *Permission of department required.*

Athletic Training Courses

Athletic training courses are offered through the Department of Athletic Training. Information about the department and the athletic training education program/major can be found in the section entitled Academic Units.

ATRG-100 Introduction to Athletic Training (3) SI

Course introducing the student to the field of athletic training and covering topics such as the NATA, basic anatomy and injury care, injury documentation, foundations of conditioning, and nutrition as it relates to

the physically active individual. Bloodborne pathogen training also is included in the course. Enrollment is limited to pre-athletic training majors. *Corequisite: ATRG-101.*

ATRG-101 Athletic Training Techniques (2) SI

Course covering taping procedures and protective devices used in athletic training. Also included will be athletic training emergency procedures such as spine board application, vacuum splints application, and wound care. Enrollment is limited to pre-athletic training majors. A lab fee will be assessed for this course. *Corequisite: ATRG-100.*

ATRG-102 Clinical Experiences I (1) A

Course designed to introduce clinical proficiencies for skill acquisition. Skill acquisition will be achieved through successful completion and evaluation of clinical proficiencies under the direct supervision of an approved clinical instructor (ACI). *Prerequisite: Acceptance into the athletic training major.*

ATRG-104 Athletic Health Care (2) SII

Course content will include the identification and initial management of common injuries seen in the physically active population. Additional information presented for open wounds, universal precautions, emergency plan and situations, injury psychology, environmental-related illness, and concussion. Basic taping skills and protective equipment fitting are covered along with fundamental anatomy of the musculoskeletal system. *For Exercise Science and Physical Education majors.*

ATRG-110 Recognition and Assessment I (4) SII

Course covering an in-depth study of the normal anatomical structures in the lower extremity including joint structure and musculoskeletal/nervous systems. Also discussed are common risk factors and causes of injuries as identified by contemporary epidemiological studies, common injuries to each body part, typical symptoms, and common clinical signs associated with injuries/illnesses with the physically active. A lab covering the assessment techniques for injuries commonly seen in the lower extremities will be included. Three lectures and two one-hour laboratory periods per week. *Prerequisites: ATRG-100 and 101 and acceptance into athletic training major.*

ATRG-201 Clinical Experiences II (1) A

Course designed to introduce clinical proficiencies for skill acquisition. Skill acquisition will be achieved through successful completion and evaluation of new and existing skills/clinical proficiencies under the direct supervision of an approved clinical instructor (ACI). Clinical experiences will build on clinical knowledge and skills successfully completed in the previous clinical experience course. Clinical experiences may occur on or off campus. *Prerequisite: ATRG-102.*

ATRG-202 Clinical Experiences III (1) A

Course designed to introduce clinical proficiencies for skill acquisition that an early-level athletic training student should master. Skill acquisition will be achieved through successful completion and evaluation of new and existing skills/clinical proficiencies under the direct supervision of an approved clinical instructor (ACI). Clinical experiences will build on clinical knowledge and skills successfully completed in the previous clinical experience courses. Clinical experiences may occur on or off campus. *Prerequisite: ATRG-201.*

ATRG-210 Recognition and Assessment II (4) SI

Course covering an in-depth study of the normal anatomical structures in the upper extremities, head, and spine, including joint structure and musculoskeletal/nervous systems. Also discussed are common risk factors

and causes of injuries as identified by contemporary epidemiological studies, common injuries to each body part, typical symptoms, and common clinical signs associated with injuries/illnesses with the physically active. A lab covering the assessment techniques for injuries commonly seen will be included. Three lectures and two one-hour laboratory periods per week. *Prerequisite: ATRG-110.*

ATRG-214 Recognition and Assessment III (3) SII

Course covering an in-depth study of normal anatomical structures of the face, thorax, abdomen, and skin. Also discussed are common risk factors and causes of injuries as identified by contemporary epidemiological studies, common injuries to each body part, typical symptoms, and common clinical signs associated with injuries and general medical conditions with the physically active. A lab covering the assessment techniques for the face, head, abdomen, and general medical conditions will be included. Two lectures and two one-hour laboratory periods per week. *Prerequisite: ATRG-210.*

ATRG-215 Muscle Testing and Function (3) SII

Course covering the origin, insertion, and action of muscles and muscle groups of the body with attention to methods to evaluate muscle length and to measure strength using manual muscle or break tests. Postural evaluation techniques and evaluation of muscle function during activities common to sport participation and rehabilitation also are addressed. *Prerequisite: ATRG-214.*

ATRG-300 Therapeutic Modalities (4) SI

Course covering the principles and application of therapeutic modalities. Tissue healing process is discussed along with clinical decision-making concerning therapeutic modalities with the physically active. Laboratory sessions will be included. Three lectures and two one-hour laboratory periods per week. *Prerequisite: ATRG-215.*

ATRG-301 Clinical Experiences IV (1) A

Course providing a standard for the type of clinical knowledge and skill that an athletic training student should possess by integrating cognitive concepts and skills into progressively higher-level practical application. This integration will be achieved through successful completion of clinical proficiencies under the direct supervision of an ACI. Clinical experiences will build on clinical knowledge and skills successfully completed in previous clinical experience courses. Clinical experiences may occur on or off campus. *Prerequisite: ATRG-202.*

ATRG-302 Clinical Experiences V (1) A

Course providing a standard for the type of clinical knowledge and skill that an athletic training student should possess by integrating cognitive concepts and skills into progressively higher-level practical application. This integration will be achieved through successful completion of clinical proficiencies under the direct supervision of an ACI. Clinical experiences will build on clinical knowledge and skills successfully completed in previous clinical experience courses. Clinical experiences may occur on or off campus. *Prerequisite: ATRG-301.*

ATRG-310 Pharmacology (1) SI

Course introducing the student to therapeutic medications commonly prescribed for injury and illnesses associated with the physically active population, both prescription and over-the-counter. Included in the course will be indications, contraindications, precautions, record-keeping procedures, drug classifications, side effects, and governing regulations related to the use of medication with the physically active. *Prerequisite: ATRG-215.*

ATRG-315 Therapeutic Rehabilitation (4) SII

Course covering the principles and application of therapeutic rehabilitation along with clinical decision-making concerning rehabilitation from injury. Specific and current rehabilitation techniques will be introduced to the student for specific athletic injuries. Laboratory sessions will be included. Three lectures and two one-hour laboratory periods per week. *Prerequisite: ATRG-300.*

ATRG-325 Symposium in Athletic Training (2) SII

Course covering current and special topics in sports medicine with emphasis on the physically active. Medical professionals from within their specific disciplines will be utilized. Specific back injury diagnosis and treatment, ocular injuries, podiatric medicine, eating disorders, and employment options are examples of topics to be addressed. *Prerequisite: ATRG-320.*

ATRG-401 Clinical Experiences VI (1) A

Course providing a standard for the type of clinical knowledge and skill that an athletic training student should possess by integrating cognitive concepts and skills into progressively higher-level practical application. This integration will be achieved through successful completion of clinical proficiencies under the direct supervision of an ACI. Clinical experiences will build on clinical knowledge and skills successfully completed in previous clinical experience courses. *Prerequisite: ATRG-302.*

ATRG-405 Field Experience (3) A

Students will be assigned to an off-campus clinical/affiliated site such as a high school athletic training room, sports medicine clinic, industrial setting, professional athletic training room, or physician office/health center for one semester. The student will be expected to spend seven weeks at each assigned site. The student will observe and participate in the day-to-day function of the facility assigned. The student will be supervised directly by a certified athletic trainer, physician, or nurse at each site. The off-campus field experience will provide the student with other examples of health care delivery, exercise/injury therapy protocols, organization, and administration. *Prerequisites: ATRG-400, senior standing, six or seven semesters of clinical experience.*

ATRG-410 Organization and Administration (3) SI

Course covering management and supervision of personnel, financial resources, programs, and health care facilities and associated venues with emphasis on factors essential to administration. Legal concerns and insurance will be discussed. *Prerequisite: ATRG-315.*

Biology Courses

Biology courses are offered through the Biology Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

Note: A grade of C or above is required in any biology course taken either for a biology major or minor or as a prerequisite to a higher-level biology course.

BIOL-100 Elements of Biology (3) N

Introduction for non-science majors to concepts of biological order from cellular to community organization levels. Emphasis on ecological and evolutionary relationships of plants and animals provides a foundation for understanding the importance of conserving nature and natural resources. Topics in human biology include heredity, development, nutrition, and physiology of drug action. Two lectures and one two-hour laboratory period per week. *Prerequisite: Math proficiency through MATH-090 or concurrent enrollment in MATH-090.*

BIOL-101 Nutrition (3) D

Study of digestion, absorption, and metabolism of carbohydrates, proteins, lipids, vitamins, and minerals. Balanced meals, special diets, food sources, and deficiency conditions are studied. *Prerequisite: Math proficiency through MATH-090 or concurrent enrollment in MATH-090.*

BIOL-103 Principles of Human Anatomy (4) A

Introduction to the tissues and organ systems of the human body. Laboratory exercises will include animal dissection. Three lectures and one 90-minute laboratory per week. This course will not count toward the biology or human biology major. *Prerequisites: Math proficiency through MATH-090; MATH-105.*

BIOL-104 Principles of Human Physiology (4) A

Introduction to the vital processes of the human body and its tissues, including an introduction to cell biology. Three lectures and one 90-minute laboratory per week. This course will not count toward a biology or human biology major. *Prerequisite: Math proficiency through MATH-090; MATH-105.*

BIOL-112 Biology for Elementary Education (3) A

Course designed for elementary education majors based on the National Science Education Standards for teaching Life Science. Emphasis will be placed on understanding central life science concepts, tools of inquiry, the basic nature of science, and practical methods for teaching scientific inquiry. Two two-hour laboratory sessions and a one-hour discussion period per week.

BIOL-130 Monkeys, Apes, and Humans (3) O/SII

Survey of living and fossil primates throughout the world. This course provides insight into the complexities of primate interactions and their unique evolutionary pathways. Topics include anatomy, social behavior, ecology, ecotourism, human-animal interaction, and deforestation. *(Cross-listed as ANTH-130.)*

BIOL-131 Explorations in Biology (3–4) D

Selected topics in the life sciences presented for non-majors. The emphasis may change each time the course is taught. A student may receive credit more than once for BIOL-131 if a different topic is covered each time. *Prerequisite: Math proficiency through MATH-105.*

BIOL-155 General Biology I: Diversity of Life (4) A

A broad survey of life and its history, diversity, and classification. Students will become acquainted with the major groups of prokaryotes, protists, animals, plants, and fungi. Two lectures, one two-hour discussion, and one two-hour laboratory period per week. *Prerequisite: MATH-105 or its equivalent.*

BIOL-165 General Biology II: Introduction to Cell Biology (4) A

A study of the basic processes of living systems, including biological molecules, metabolism, transport, and cell structure and function. Two lectures, one discussion, and one two-hour laboratory period per week. *Prerequisite: CHEM-150.*

BIOL-209 Clinical Microbiology (4) A

Introduction to viruses, bacteria, fungi, and parasites of biomedical importance. Lecture and laboratory exercises on classification and identification of microorganisms, host-agent interactions, and strategies for prevention of infectious disease. This course is intended primarily for students in the nursing program. Two lectures and two two-hour laboratory periods per week. *Prerequisite: BIOL-103/104 or BIOL-165.*

BIOL-210 Human Biological Variation (3) N

Study of the pattern and nature of human biological variation, including adaptation to the environment, growth and development, race, gender, and determinants of behavior. (Cross-listed as ANTH-205.) Prerequisites: Math proficiency through MATH-105 and English proficiency.

BIOL-220 General Microbiology (4) Y

General survey of microbial life emphasizing the nature of bacterial structure and function. Ecological interactions of biological and economic importance are studied. Two lectures and two two-hour laboratory periods per week. Prerequisites: BIOL-165, BIOL-225, and CHEM-160.

BIOL-225 Introduction to Genetics (4) A

The study of gene structure and function, the role of genes in determining the traits of living organisms, and the role of genes in evolution (microevolution). Transmission (Mendelian) and molecular approaches will be utilized to recognize patterns of inheritance in individuals and populations. Topics will include DNA replication, RNA transcription, protein translation and cell division, and the regulation of gene expression in prokaryotes and eukaryotes. Emphasis will be placed on problem solving and interpretation of experimental data. Two lectures, one two-hour discussion, and one two-hour laboratory session per week. Prerequisite: BIOL-165.

BIOL-230 Cell Biology (4) O

Study of macromolecules and the architecture of the eukaryotic cell. Topics to be covered include the structure and function of carbohydrates, lipids, proteins, RNA, and DNA; the roles of enzymes in metabolism, cell-cell communication, cell transport; structure and function of eukaryotic cell organelles, and the cytoskeleton. Laboratory exercises include enzyme assays, isolation of cell organelles, analysis of membrane proteins, gel electrophoresis, eukaryotic cell culture, and microscopy. Two one-hour lectures and two two-hour laboratories per week. Prerequisites: BIOL-225 and CHEM-160.

BIOL-240 Vertebrate Anatomy (4) D

Comparative study of form and structure of representatives from the vertebrate groups. Dissections, histological studies, and a generalized developmental background of the organ systems are emphasized. Two lectures and two two-hour laboratory periods per week. Prerequisite: BIOL-165.

BIOL-245 Ornithology (4) D

An introduction to the biology and identification of birds. Focuses on structure and function as they relate to avian evolution, physiology, anatomy, reproduction, behavior, and conservation. Laboratory component involves field trips and stresses identification by sight and sound. Some personal travel to field sites may be required. Available to majors and non-majors.

BIOL-265 Ecology (4) A

Study of interactions between organisms and their physical and biological environments. Includes study of physical factors, biochemical cycles, population dynamics, and population interactions. Students will design and complete an independent research study. Three lectures and one three-hour laboratory period per week. (Cross-listed as ESCI-265.) Prerequisite: BIOL-155.

BIOL-270 Immunology (3) O

Study of the organization and function of the vertebrate immune system. Topics covered include types of immunity, properties and interactions of antigens and antibodies, immunoglobulin structure, structure of the

immune system, immunogenetics, immune surveillance, autoimmunity, immunodeficiency, and immunology of tumors. *Prerequisites: BIOL-165, BIOL-209 or 220, and CHEM-160.*

BIOL-280 Evolutionary Biology (3) N

Examination of the theory and evidence for evolution. Theories regarding the mechanisms and patterns for evolution, speciation, and extinction will be discussed. *Prerequisite: BIOL-225 or consent of the instructor.*

BIOL-300 Internship in Health/Life Sciences (1–4) A

Internship program providing practical experience in various settings pertinent to careers in allied health and life sciences areas. Students will participate on a voluntary basis without monetary compensation and must provide their own transportation, liability insurance, uniform, and all other materials required by the participating organization. Full participation is expected. Failure to participate in a satisfactory manner, as determined by the participating organization, shall result in termination of the internship with no academic credit for the particular student. Satisfactory/Unsatisfactory grading. *Prerequisites: Sophomore standing or higher; minimum GPA of 3.0; and permission of course instructor and participating organization/facility.*

BIOL-305 Human Functional Anatomy (4) A

Survey of the anatomy of the human body, giving special attention to the structure and function of the musculoskeletal system. Includes an introduction to body tissues and biomechanics and explores the relationship between body design and its mechanical function in an evolutionary and comparative context. Labs will include dissection and measurement of human performance. Two lectures and two two-hour laboratory periods per week. *Prerequisites: BIOL-165. Junior or senior standing.*

BIOL-320 Biochemistry (3) SI

An introduction to the molecules and chemical reactions that are characteristic of living things. The course will discuss the structures of important biological molecules including amino acids, proteins, nucleic acids, and lipids and metabolic processes that extract and store metabolic energy. Three hours of lecture per week. May be taken for either biology or chemistry credit. (*Cross-listed as CHEM-320.*) *Prerequisites: BIOL-165 and CHEM-250, or consent of instructor.*

BIOL-325 Advanced Genetics (4) O

Study of gene action and the mechanisms of inheritance beyond introductory level. Focuses on the integration of classical genetics with molecular models of gene action. Topics covered include Mendelian genetics, gene structure and function, mutation and repair, gene regulation, mobile genetic elements, developmental genetics, epigenetic factors, evolutionary genetics, and quantitative inheritance. Three lectures and one two-hour laboratory period per week. *Prerequisites: BIOL-225 and CHEM-250 or consent of the instructor.*

BIOL-330 Mammalian Physiology (4) A

Study of principles of metabolism, homeostatic mechanisms, and structure-function relationships of animal systems with emphasis on human anatomy and physiology. Integrated lecture and laboratory experiences. Two lectures and two two-hour laboratory periods per week. *Prerequisites: BIOL-165. Junior or senior standing.*

BIOL-345 Human Evolution (3) N

Broad study of aspects of human evolution, including evolutionary theory; fossil and archeological evidence; aspects of comparative anatomy, behavior, and ecology; and the genetics and variation of modern human populations in order to reconstruct our species' biological and cultural prehistory. (*Cross-listed as ANTH-345.*) *Prerequisite: BIOL-155 or ANTH-205/BIOL-210.*

BIOL-350 Plant Biology (4) D

An introduction to the fundamental principles of botany. This course will be a study of diversity, evolution, ecology, and reproduction of plants. Will include both laboratory and field studies. Three lectures and one two-hour laboratory period per week. *Prerequisites: BIOL-155 and BIOL-165, or permission of instructor.*

BIOL-355 Biochemistry Laboratory (1) SII

Students will practice the basic laboratory techniques in biochemistry including protein chromatography, electrophoresis, and enzyme kinetics and investigate the chemical properties of lipids and carbohydrates. (*Cross-listed as CHEM-355.*) *Prerequisite: CHEM-320 or BIOL-320.*

BIOL-365 Medical Writing (3) O

The goal of this course is to familiarize students with the style and format of writing in the biomedical sciences and to provide multiple opportunities for students to interpret, edit, and summarize scientific information.

BIOL-390 Molecular Biology (4) O

Study of the molecular processes involved in gene function and regulation. Topics include a detailed study of replication, transcription, and translation with emphasis on protein-nucleic acid interactions and molecular mechanism of mutation and repair. Laboratory exercises will focus on experimental design in molecular biology to isolate and analyze specific DNA sequences and include the use of databases (such as GenBank) to analyze DNA sequences and gene products. Two one-hour lectures and two two-hour labs per week. (*Cross-listed as CHEM-390.*) *Prerequisite: BIOL-225 or BIOL/CHEM-320.*

BIOL-395 Biochemistry II (3) O/SII (even-numbered years)

This course focuses on the anabolic and catabolic chemical reactions used to manufacture, degrade, and/or recycle small molecules in biological systems with special attention paid to the mechanisms and chemistry of signaling processes within cells used to control and regulate cellular processes. (*Cross-listed as CHEM-395.*) *Prerequisite: CHEM/BIOL-320 or BIOL-330 or consent of instructor.*

BIOL-411 Human Biology and Culture (3) N

A study of the interactions of biology and human culture. Topics may include human sociobiology, human ecology, nutrition, reproduction, demography, and disease. (*Cross-listed as ANTH-411.*) *Prerequisites: Math proficiency through MATH-105 and English proficiency; BIOL-210 recommended.*

BIOL-425 Dental Science (3–4) O/SII

Teeth are a very significant component of any analysis of a skeleton from any context, including archeological, paleontological, and forensic. Designed for those interested in health sciences, anthropology, and biology, this course intensively studies the anatomy, histology, use, and evolution of teeth. (*Cross-listed as ANTH-425.*)

BIOL-430 Plant Growth and Development (2) D

Study of the developmental biology of plants that emphasizes the regulation of the processes of growth and development in the vascular plants. Topics include analysis of plant growth, plant growth regulators, photoperiodism and the regulation of development, factors involved in germination and flowering, and senescence. *Prerequisites: BIOL-155 and 165.*

BIOL-435 Forensic and Historic DNA Analysis (3) D

An examination of the theoretical approaches to and practical applications of molecular analyses of forensic and historic specimens. The course will integrate basic concepts of skeletal biology, genetics (including popula-

tion genetics), molecular biology, and basic organic chemistry. Extensive use of the primary literature will be employed and students will design an original research project. Two two-hour meetings per week. Laboratory exercises will focus primarily on DNA profiling of vertebrate skeletal remains. *Prerequisites: Genetics (either BIOL-225 or BIOL-325) and CHEM-160.*

BIOL-450 Human Osteology (4) N

In-depth examination of the anatomy and physiology of the human skeletal system. Functional aspects will be considered for each bone or bone complex in the body. In addition, such issues as paleopathology, paleodemographic reconstruction, forensic anthropology, and osteoarcheology will be addressed. Two lectures and two two-hour laboratory periods per week. *(Cross-listed as ANTH-450.) Prerequisite: BIOL-155.*

BIOL-460 Topics in Biology (1–4) N

Study of a particular area of biology not covered comprehensively in one of the other advanced courses. A student may receive credit more than once for BIOL-460 if a different topic is covered each time. *Prerequisite: permission of the instructor.*

BIOL-465 Supervised Writing (.5) A

The student will work individually with a faculty member or professional contact to complete an assignment in science or medical writing. *Prerequisite: BIOL-365 or permission of the instructor.*

BIOL-490 Senior Research Project (1–4) A

Introduction to the procedures and practices of scientific research. The student will be expected to pose a problem, suggest procedures to be used to solve the problem, and then work toward its solution. A final written report is required. The course may be repeated, but no more than eight hours of research in biology will be awarded. *Prerequisite: 24 hours of biology and consent of the instructor.*

Business Administration Courses

Business administration courses are offered through the School of Business. Information about the school and its majors and minors can be found in the section entitled Academic Units.

BADM-100 Freshman Experience (1) SI (Day)

This course provides tools for achieving academic success such as time management, listening, note taking, and study methods. Course offerings of the School of Business, course offerings by the University, and International opportunities are discussed. Leadership and ethics are emphasized as important aspects of the successful businessperson. Understanding curriculum guides and scheduling of classes takes place in this class. The internal assessment exam is given. Required of all day freshman business majors. The students meet the key advisor in the School of Business.

BADM-110 Introduction to Business (3) SI

An overview of the purpose and operation of a business is covered. The course begins by explaining the role a business organization plays in the economy. Students then are exposed to marketing, operations, human resources, and management. A survey of these functions is provided, along with details of the guiding principles of each. Students will also learn the process by which a firm develops, produces, and distributes its product or service. *(The course is open to non-business majors only.)*

BADM-120 Introduction to Business Finance (3) SII

This course is an introductory course for non-majors to introduce the fundamental concepts and tools of corporate finance. Topics covered will include an introduction to financial management, an overview of financial statements and cash flows, valuation of future cash flows including the time value of money, valuing stocks and bonds, the cost of capital, capital budgeting, risk and return, short-term financial management, and long-term financing. (*The course is open to non-business majors only.*)

BADM-230 Business Law (3) A

Instruction in basic legal concepts and terminology; a brief overview of civil procedure; and attention to the substantive areas of business torts, contracts, agency, property, bailments, and personnel law.

BADM-231 Business Communications (3) A

Analysis of and practice in writing letters and memoranda for business. Fundamentals of appearance, tone, and psychology in writing are emphasized with special attention to the job application procedure. (This is not a speech or parliamentary procedure course.) *Prerequisite: ENGL-101 and COMP-150 or word processing ability.*

BADM-233 Business Law: Partnerships and Corporations (3) A

Study of the law relating to formation and operation of partnerships and corporations. The student learns commercial law through study of the Uniform Commercial Code (sales, negotiable instruments, and secured transactions) and the Bankruptcy Code.

BADM-234 Organizational Behavior (3) A

This course focuses on understanding and learning how to change organizations by working on issues related to individual motivation and development, group process and development, and organizational formation and development. Topical areas include ethics, time utilization, stress management, international/intercultural issues, self-management, and learning from experience.

BADM-332 Research/Writing/Project Management (3) A

Application of the principles and mechanics of research and technical writing. Students will conduct a primary or secondary research activity for a client. Skill development will be focused on applied writing skills; research design and development; statistical analysis; research reporting; and planning, implementation, and completion of a report. *Prerequisite: ENGL-101, COMP-150. Recommended: MATH-220 or 450.*

BADM-334 Group Dynamics (3) SII

Course focuses on development and application of individual skills required for effective group membership and group leadership. Students will participate in an experientially based group development program. A major focus of the course will be application of developed skills in organizational contexts. *Prerequisite: Junior standing. (May substitute HRM-481 or HRM-483.)*

BADM-350 Career and Employment Strategies (1) A

Course designed to assist students in making the transition from full-time students to full-time professionals by helping them recognize career choice factors, determine personal career options, and understand fundamental aspects of an effective job search, including how to interview successfully. Dress, professional decorum, opportunities, and networking are discussed by faculty and by visiting business professionals. This course is a cooperative effort of the School of Business and the Office of Career Services and Employer Relations. *Prerequisite: Senior standing.*

BADM-420 Special Topics in Business (1–5) D

Individual or group study or project. A project, research paper, seminar or workshop, or small group discussion may be appropriate to meet the needs of individuals who lack one to five hours for a major or minor required for graduation. This course can explore in more detail a topic not offered by the School of Business, substitute for a course requirement if not offered, or be used to explore governmental regulations, establishment of a new business, or other ideas presented by the student. *Prerequisite: Senior status and approval of the dean or the director of Undergraduate Programs of the School of Business required prior to enrollment.*

BADM-439 Business Policy and Strategy (3) A

Study of business problems integrating study of accounting, economics, finance, management, and marketing. A computer-oriented management/marketing simulation is used to synthesize learning experiences. The student will be expected to have basic knowledge of the common core in business and these issues will not be taught.

BADM-450 Internship in Business (1–4) Internship D

Internships are designed to offer students the opportunity to integrate their academic understanding of business concepts with practical experience. These faculty-supervised work experiences allow students to reflect, record, evaluate, and communicate their goals. Students may identify a potential internship on their own, through a School of Business faculty member, or through the Office of Career Services and Employer Relations. In order for the student to enroll in and earn academic credit for BADM-450, the site and description of the internship must be approved by the School of Business. (Students also may choose to register for a non-credit-bearing internship through the Office of Career Services.) Normally an internship lasts the equivalent of one regular semester, but occasionally it can be extended to two semesters. Additional information about internships in business is available in the Office of Career Services and Employer Relations or the School of Business. *Prerequisite: Approval of the School of Business.*

BADM-460 Business Leadership (3) D (Day)

The course is about leadership, with focus both on an individual and an organizational basis. Class time will be spent in exploring ideas from reading, applying them to experience, interpreting and feeding back data from exercises, and applying knowledge. The class will require students to be both introspective and participative. *Prerequisite: Senior status.*

Business Education Courses

Business education courses are offered through the School of Business. Information about the school and its majors and minors can be found in the section entitled Academic Units.

BUED-146 Personal Financial Management (3) SI

Introductory, practical course designed to help the student manage personal income. Child care; life, health, and automobile insurance; savings and investments; purchase of real estate; and wills and estate planning are some of the topics covered. The purpose of this course is to prepare business education majors to teach in the high school environment; however, many students find the course useful for everyday life.

BUED-240 Administrative Office Management (3) SII

A course oriented toward principles of effective office management, with emphasis on communications management, time management, management of personnel, records administration, management of EEO and OSHA issues, office decorum, ergonomics, and ethical issues.

BUED-243 Office Technology and Records Management (3) SI

This methods course uses techniques to teach practical applications pertaining to office technology and also concentrates on how to teach mastered skills to others. Students will learn to use procedures and routines to develop high-level thinking skills and apply them to solve problems. Areas of skill mastery and specific problem-solving include numeric keypad (touch method), accounting methods, computerized accounting spreadsheets, information management with databases, and desktop publishing.

BUED-343 Advanced Keyboarding and Word Processing (3) SII

This course will prepare teachers to teach keyboarding at the middle and high school levels as they improve skills and also learn what is expected from keyboarding software programs. Students will use state-of-the-art software teamed with Word to improve technique, speed, and accuracy and to gain new word processing skills. Coursework includes timings and practical office applications using the computer to prepare tables, letters, reports, and brochures. Students should enter with minimum touch-method keyboarding proficiency and improve their technique, speed, and accuracy through practice during the course. *Prerequisite: At least 42 wpm typing speed.*

Chemistry Courses

Chemistry courses are offered through the Chemistry Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

CHEM-100 Elements of Chemistry and Physics (3) A

A one-semester integrative chemistry and physics course intended for students who wish to learn fundamental principles relating to the structure of matter, energy transformations, motion of objects and waves, and the forces of nature. Students will learn through active participation in hands-on group activities. While doing the activities the students will demonstrate scientific habits and gain insight into the nature of science. May be taken for chemistry or physics credit. *(Cross-listed as PHYS-100.) Four hours of laboratory/group activity per week. Prerequisite: Mathematics proficiency.*

CHEM-103 Introduction to Chemistry (3) SI

Introduction to both theoretical and practical aspects of general and inorganic chemistry. Three lectures and one discussion per week. *Prerequisite: Proficiency in general mathematics and high school-level algebra (equivalent of MATH-105 or above).*

CHEM-104 Introduction to General Organic and Biological Chemistry (5) A

Introduction of chemistry as applied to the health-related programs. This survey course covers the fundamentals of general, inorganic, organic, and biochemistry, especially as they apply to biological systems. The overview of general chemistry includes atomic structure, bonding, nomenclature, and reactions, as well as radioisotopes, electrolytes, pH, and buffers in biological systems. The organic chemistry component includes naming, chemical reactions, and properties of organic compounds. Also included is the study of important biological compounds including proteins, lipids, enzymes, and carbohydrates. Four hours of lecture and one two-hour laboratory per week. *Prerequisite: Mathematics proficiency.*

CHEM-150 General Chemistry I (3) A

Study of the basic principles related to the composition and structure of matter, the changes in matter, and the energy changes that accompany these changes in matter. The course is the first-semester college chemistry course for science students. Three hours of lecture and one discussion per week. *Prerequisites: One semester of*

college chemistry with a grade of C or better, or two semesters of high school chemistry within the past four years with a grade of B or better and demonstrated proficiency in general mathematics, algebra, and trigonometry (equivalent of high school precalculus or MATH-180 or above), or consent of instructor. Corequisite: CHEM-151 General Chemistry Lab I.

CHEM-151 General Chemistry Lab I (1) A

Laboratory to accompany CHEM-150 General Chemistry I. Introduces basic laboratory techniques, analysis and presentation of data, and investigations of the nature of matter. Two hours of lab per week. Corequisite: CHEM-150 General Chemistry I.

CHEM-160 General Chemistry II (3) A

Continuation of CHEM-150; builds on the basic principles of chemistry from General Chemistry I by applying these principles to the study of chemical solutions, reaction kinetics, chemical equilibrium, thermodynamics, electrochemistry, and nuclear chemistry. Three hours of lecture and one discussion per week. Prerequisite: CHEM-150 with a C- or better or consent of instructor. Corequisite: CHEM-161 General Chemistry Lab II.

CHEM-161 General Chemistry Lab II (1) A

Laboratory course to accompany CHEM-160. Laboratory experience focusing on properties of chemical solutions, reaction kinetics, chemical equilibrium, thermodynamics, and electrochemistry. Two hours of lab per week. Corequisite: CHEM-160 General Chemistry II.

CHEM-161-IL: Investigative Laboratory (1) A

Laboratory course designed to substitute for unrestricted sections of CHEM-161. The student will use instrumental methods and techniques to solve more in-depth laboratory questions, working on a more independent basis than students in the regular CHEM-161 laboratory course. Prerequisite: B+ or better in CHEM-150 and consent of instructor. Corequisite: CHEM-160 General Chemistry II.

CHEM-210 Environmental Problems (3) D

Study of the pollution of our present environment. The causes of these pollution problems and the damage that is being done are studied. Some solutions to the problems are discussed. May be taken for chemistry or earth-space sciences credit. Three hours of lecture per week. (Cross-listed as ESCI-210.)

CHEM-230 Environmental Chemistry (4) O

Study of the chemical aspects of the problems that human beings have created in the natural environment. This course will build on the chemistry and problem-solving skills mastered in CHEM-160 to apply knowledge of general chemistry to real-life issues. Chemistry occurring in the air, soil, and water will be studied in detail. Three hours of lecture and one two-hour laboratory per week. Prerequisite: CHEM-160 or consent of instructor.

CHEM-250 Organic Chemistry I (3) SI

Detailed study of the structures, properties, naming, stereochemistry, syntheses, and reactions of hydrocarbons, alcohols, and alkyl halides. Three hours of lecture per week. Prerequisite: CHEM-160 with a C- or better or consent of instructor. Corequisite: CHEM-251 Organic Chemistry Lab I.

CHEM-251 Organic Chemistry Lab I (2) SI

Laboratory to accompany CHEM-250 Organic Chemistry I. Introduces experimental techniques of organic chemistry emphasizing chemical separations and reactions of alkanes and alkenes and stereochemical modeling. Three hours of lab and two hours of discussion per week. Corequisite: CHEM-250 Organic Chemistry I.

CHEM-260: Organic Chemistry II (3) SII

Continuation of CHEM-250; study of the chemistry of aromatic carbon compounds, carbon compounds containing oxygen, and amines. Structures, properties, naming, syntheses, and reactions of compounds and spectroscopic structure determination of each group are discussed. Three hours of lecture week. *Prerequisite: CHEM-250 with a C- or better or consent of instructor. Corequisite: CHEM-261 Organic Chemistry Lab II.*

CHEM-261: Organic Chem Lab II (2) SII

Laboratory to accompany CHEM-260 Organic Chemistry II. Introduction to techniques of modern organic chemistry emphasizing reactions involving alcohols, ketones, carboxylic acids, and their derivatives. Three hours of lab and two hours of discussion per week. *Corequisite: CHEM-260 Organic Chemistry II.*

CHEM-280 Intermediate Inorganic Chemistry (4) O

This course provides an introduction to inorganic chemistry with a central focus on periodic trends, molecular structure, bonding theories, and descriptive chemistry pertaining to the main group elements. Three lectures and approximately two to three hours of laboratory work per week. *Prerequisite: CHEM-250.*

CHEM-301 Chemistry Seminar (1) SII

This course will give students an opportunity to look at chemistry from a broader perspective than is typical in the chemistry content courses. The course will cover recent trends in chemistry research, careers in chemistry and chemistry-related fields, and communication skills in the field of chemistry. One hour per week. *Prerequisite: Junior standing.*

CHEM-310 Analytical Chemistry (5) SI

Study of the principles involved in the practice and theory of quantitative analysis. Laboratory techniques include gravimetric, volumetric, and instrumental methods of analysis. Three lectures and approximately four to six hours of laboratory work per week. *Prerequisite: CHEM-160.*

CHEM-320 Biochemistry (3) SI

An introduction to the molecules and chemical reactions that are characteristic of living things. The course will discuss the structures of important biological molecules including amino acids, proteins, nucleic acids, and lipids and metabolic processes that extract and store metabolic energy. Three hours of lecture per week. May be taken for either biology or chemistry credit. *(Cross-listed as BIOL-320.) Prerequisites: BIOL-165 and CHEM-250, or consent of instructor.*

CHEM-355 Biochemistry Laboratory (1) SII

Practice of the basic laboratory techniques in biochemistry including protein chromatography, electrophoresis, and enzyme kinetics and investigation of the chemical properties of lipids and carbohydrates. Approximately three hours of laboratory per week. *(Cross-listed as BIOL-355) Prerequisite: CHEM-320 or BIOL-320.*

CHEM-370 Physical Chemistry I (3) SI

This course provides an introduction to the study of heat and energy and their influence in chemical and physical changes. Particular attention will be given to the concept of chemical equilibrium. Application of mathematical models will be extensive. May be taken for chemistry or physics credit. Three hours of lecture per week. *(Cross-listed as PHYS-370.) Prerequisites: CHEM-160, MATH-191, and PHYS-150 or 153, or consent of instructor.*

CHEM-375 Physical Chemistry Laboratory (2) SI

This laboratory course is designed to give junior and senior chemistry students practice with designing experiments, collecting and analyzing data, and presenting experimental results in a written format. Students in this course will be required to complete a series of laboratory projects. For each project, the student will design an experiment, complete the experiment, and write a report. Approximately four hours of laboratory per week. (*Cross listed as PHYS-375.*) *Prerequisites: CHEM-310, MATH-191, and PHYS-160 or 163, or consent of instructor.*

CHEM-380 Physical Chemistry II (3) SII

This course builds on the concepts mastered in CHEM-370 and extends the study of thermodynamics into electrochemistry and the study of chemical kinetics. In addition, the fundamentals of quantum mechanics will be discussed and applied to concepts of chemical bonding and molecular behavior. Three hours of lecture per week. (*Cross listed as PHYS-380.*) *Prerequisites: CHEM-370 or consent of instructor.*

CHEM-390 Molecular Biology (4) O

Study of the molecular processes involved in gene function and regulation of cell activities. Topics include the mechanisms of DNA, RNA, and protein synthesis in bacteria and eukaryotes; mutation and repair; regulation of gene activity; and recombinant DNA methods. Two hours of lecture and two two-hour laboratories per week. (*Cross-listed as BIOL-390.*) *Prerequisite: BIOL-225 or BIOL/CHEM-320 or consent of instructor.*

CHEM-395 Biochemistry II (3) O/SII

Study of the anabolic and catabolic chemical reactions used to manufacture, degrade, and/or recycle small molecules in biological systems, with special attention paid to the mechanisms and chemistry of signaling processes within cells used to control and regulate cellular processes. (*Cross-listed as BIOL-395.*) *Prerequisite: CHEM/BIOL-320 or BIOL-330 or consent of instructor.*

CHEM-400 Advanced Laboratory Techniques (4) SII/O

Study of advanced chemical separation and analytical techniques and their applications. Two hours of lecture and additional guided independent study and laboratory experience per week. *Prerequisites: CHEM-260 and 310, PHYS-160 or PHYS-163, and MATH-190 or consent of instructor.*

CHEM-401, 402 Internship in Medical Technology (16, 16) A

Twelve-month training program conducted by an accredited school of medical technology. Fulfills all the requirements established by the Board of Schools of the American Society of Clinical Pathologists. Cannot be applied to a chemistry major or minor. *Prerequisite: Consent of department and admission to an affiliated medical technology program.*

CHEM-427/327/227/127 Topics in Chemistry (1–4) D

Study of a particular area of chemistry not covered comprehensively in one of the other advanced courses. A student may receive credit more than once for a topics course if a different topic is covered each time. *Prerequisite: Consent of instructor.*

CHEM-450 Research in Chemistry (1–4) D

Introduction to the procedures and practices of scientific research. In collaboration with a faculty member, the student is expected to pose a problem, suggest procedures to be used to solve the problem, then work toward its solution. A final written report is required. The course may be repeated, but no more than eight hours of

credit for research in chemistry will be awarded. Approximately six hours of work per week per hour of credit.
Prerequisites: 16 hours of chemistry and consent of the instructor.

Chinese Courses

Chinese courses are offered through the Modern Languages Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

CHIN-101 Chinese Language and Culture I (4) N/D

Designed to study the language and culture of Chinese speakers. Learning to use the language is the most important component of this study. Students develop rudimentary listening, speaking, reading, and writing skills in Mandarin Chinese and study cultural, geographical, and historical aspects of China and other large Chinese-speaking populations. Emphasis also is given to developing awareness and understanding of cultural differences and nonbiased attitudes toward cultures different from one's own. This course fulfills the modern language requirement of the general education core.

CHIN-102 Chinese Language and Culture II (4) N/D

Designed to continue the sequence of experiences that enables students to acquire listening, reading, speaking, and writing skills. The course also provides information about the people, places, attitudes, customs, and geography of the Chinese-speaking world. This course fulfills the modern language requirement of the College of Arts and Sciences core. *Prerequisite: CHIN-101 or equivalent.*

CHIN-201 Chinese Language and Culture III (4) N/D

Review, practice, and further development of the skills acquired in CHIN-102. Emphasis in this course is on reading and writing skills. This course fulfills the modern language requirement of the Bachelor of Arts degree. *Prerequisite: CHIN-102 or equivalent.*

CHIN-202 Intermediate Mandarin Chinese (2) N/D

Emphasis on reading and writing continues in this course, reinforced by practice in communicative competence.

Christian Vocations and Formation Courses

Christian Vocations and Formation courses are offered through the Lantz Center for Christian Vocations and Formation. These courses are open to students of all majors. Additional information about the Center can be found in the section entitled Academic Units.

CVOC-105-01 Service Learning Placement (1-3)

Christian Vocations Service Learning is a course that uses resources of Christian churches, leaders, and enterprises, as well as other service agencies, to help students integrate their classroom learning with their vocational commitments. Through placements in local agencies/organizations, students learn firsthand how to apply their learning in the context of practical life and work. Regular classroom lecture/discussion sessions allow students to compare their experiences with those of other students at other locations. The course goals include (1) to learn how to apply the disciplines of Christian living to actual contexts of work; (2) to enhance awareness of the concerns of church and community; (3) to develop leadership skills through integration of classroom with Christian service experiences, and (4) to reinforce partnerships between the University com-

munity and various Christian congregations and agencies. *Satisfactory/Unsatisfactory (S/U) grading. Open to students of all majors.*

CVOC-105-50 Appalachia Service Project (2)

Students involved in CVOC-105-50 will be in a service learning experience in Appalachia. There, for five days, the students will have the opportunity to help a family in need of housing improvements. The main objective of this course is to be participating fully in this service project. However, service learning also involves processing and reflection on the context, needs, and motivations for service. During the experience in Appalachia, students will have the occasion to view and consider elements of a clear subculture within the United States.

CVOC-110 Christian Exploration/Formation I (1.5)

This course introduces students to the practice of reflecting on Scripture, common reading and discussion, and the beginning of developing mentoring relationships. Students will be engaged in discerning ways that Christians are called to live in the world. Career counseling, films, guest speakers, journal reflection, and other activities are used to help students explore the multiple ways in which Christians are formed to respond to God's call. Students will meet with a mentor to explore the connection between faith and work. This course can be taken in conjunction with CVOC-105-01. *Satisfactory/Unsatisfactory (S/U) grading. Open to students of all majors. Required for Pre-Theology and Youth Ministry majors.*

CVOC-111 Christian Exploration/Formation II (1.5)

This course allows students to continue the exploration of vocation while becoming familiar with the classic practices of Christian spiritual formation. As students learn about a variety of Christian practices, they will have the opportunity to engage in the actual practice of them both in and out of class. This course takes for granted that service is a universal vocation for all Christians. Therefore, students are required to perform a certain amount of service throughout the semester. This course can be taken in conjunction with CVOC-105-01. *Prerequisite: CVOC-110 or with permission from the director of the Lantz Center. Satisfactory/Unsatisfactory (S/U) grading. Open to students of all majors. Required for Pre-Theology and Youth Ministry majors.*

CVOC-210 Christian Exploration/Formation III (1.5)

Students will build on their foundation of exploration and formation by incorporating the practice of discernment and other spiritual practices into a "Rule of Life." This course will include study and dialogue about the meaning and purpose of such a rule, and students will construct their own rule of life; to ensure that it is grounded in reality, each student will meet with a mentor to talk about its implications for his or her life. This course can be taken in conjunction with CVOC 105-01. *Satisfactory/Unsatisfactory (S/U) grading. Prerequisites: CVOC-110 and CVOC-111. Open to students of all majors. Required for Pre-Theology and Youth Ministry majors.*

CVOC-211 Christian Exploration/Formation IV (1.5)

This course is the capstone course for the CVOC curriculum. As such it seeks to draw from all the elements of the previous semesters to provide students with an opportunity to live with their "Rule of Life," to discern God's call for the future, and to commit themselves to service. Students will be introduced to a particular paradigm of spiritual mentoring. This course will provide opportunities for specific acts of commitment by encouraging students to discern their role in the CVOC commissioning service as well as their own role as mentors. *Prerequisites: CVOC-110, 111, and 210. This course can be taken in conjunction with CVOC-105-01. Satisfactory/Unsatisfactory (S/U) grading. Open to students of all majors. Required for Pre-Theology and Youth Ministry majors.*

CVOC-406 Internship (1-15) A

An opportunity for students who want to work in a closely supervised context of practical experience in a particular field of Christian service. A full-time internship of at least four weeks may be arranged during Semester I or II or in the summer. While the staff of the Lantz Center for Christian Vocations and Formation can assist students in locating area businesses, schools, churches, and other agencies to arrange possible internships, students are responsible for making these arrangements. *Prerequisites: CVOC-110 and 111. May be done in conjunction with CVOC-210 or 211. CVOC Satisfactory/Unsatisfactory (S/U) grading. Open to students of all majors. Required for Pre-Theology and Youth Ministry majors.*

Communication Courses

Communication courses are offered through the Communication Department. Information about the department and its major and minor can be found in the section entitled Academic Units.

Note: The Communication Department offers core courses every year, applied courses every semester, and major and elective courses every two or three years.

COMM-100 Public Speaking (2) A

Emphasizes the development of public speaking skills through concentration on research organization and delivery. Attention is given to classroom speaking, criticism, and listening.

COMM-101 Computer Applications in Communications (3) A

Introduces the capabilities, applications, and use of computers in the field of communication, including the current software packages, explanation of hardware terminology and function, and discussion of the role of computers in new media.

COMM-105 Communication Preparatory (1) Y

Provides the freshman or new major in Communication with orientation to University life and participation in the department and areas of communication study. Focus is on preparation for academic and professional success.

COMM-110 Applied Radio (1) A

Provides practical experience in working in the University radio station. The student must devote a minimum of four hours per week outside of class to practical work. Classroom instruction orients the student to radio station operation, audio production, and radio announcing principles.

COMM-111 Applied Television (1) A

Provides practical experience in working in the University television production facility. The student must devote a minimum of four hours per week outside of class to producing video projects. Classroom instruction orients the student to video production and television announcing principles.

COMM-115 Introduction to the Electronic Media (3) SI

Surveys the history of the electronic media, station organization, program planning, broadcast advertising, sales, FCC rules and regulations, media management, and theoretical approaches to media studies.

COMM-116 Audio Production (3) SI

Involves intensive study of the use of audio in various electronic media contexts. Explores theory and practical techniques for recording music and speech, digital audio editing, advanced post-production, and remote field production.

COMM-117 Video Production (3) A

Involves intensive study in the use of video technology for producing commercials, news, and instructional programs. Concentrates on composition, lighting, graphics, editing, and post-production techniques.

COMM-120 Applied Journalism (1) A

Provides practical experience through work on the University newspaper. The student is expected to devote a minimum of four hours per issue to practical work. Areas of experience include reporting, layout, design, and photography. Initial classroom instruction orients the student to the program.

COMM-125 Introduction to Journalism (3) SII

Gives students an understanding of the development of print media in the United States to better comprehend the technology, writing, design, and ethics of current journalism and to predict journalistic trends.

COMM-130 Forensics (1) A

Offers students an opportunity to participate in classroom and experiential training in individual speech events. Participants deliver prepared, extemporaneous, and impromptu speeches; perform literature before University or community audiences; and compete in intercollegiate tournaments and festivals. Instruction is of an individual nature and adapted to the student's previous training and skill level. *Prerequisite: Consent of the instructor.*

COMM-135 Introduction to Human Communication (3) A

Surveys the nature and applications of principles of human communication derived from classical and contemporary theory and research. Course will present concepts, principles, theories, and research findings relevant to understanding the complexities of human communication. It further will provide insights into the multidimensional contexts of communication, including facets of understanding the self, relational transactions, group interactions, public speaking, organizational behavior, and cultural diversity.

COMM-140 Applied Public Relations (1) A

Provides practical experience working in a public relations agency located within the Department of Communication. The student must devote a minimum of four hours per week to practical work. Classroom instruction orients the student to the program.

COMM-200 Business and Professional Communication (3) A

Enables the student to analyze variables that affect communication practices in business, governmental, and professional organizations. Participants experience the common interpersonal, group, and public communication situations found in organizational settings and develop skills in interviewing, conducting meetings, interacting in small groups, and preparing and presenting informative and persuasive speeches. *Prerequisites: MGT-281 recommended. Sophomore standing required.*

COMM-201 Classroom Communication (3) A

Surveys the communication skills necessary for effective classroom teaching. Emphasis is placed on developing lecture and discussion techniques, improving interpersonal communications, and public speaking skills.

Prerequisite: Strongly recommended for education majors only.

COMM-211 Announcing (3) O/SII

Develops vocal skills necessary for on-air radio and television presentation. Studies include use of the human vocal system, analysis of copy, commercial voice-overs, news anchoring, news field reporting, interviewing techniques, and radio announcing.

COMM-220 Introduction to Media Writing (3) SI

Provides an introduction to the specialized writing styles necessary for writing and reporting in various facets of mass communication. Students prepare articles and commentary for the electronic and print media, including broadcast programs and news publications. *Prerequisite: Keyboarding skills strongly recommended.*

COMM-221 Copy Editing (3) O/SI

Covers responsibilities of the newsperson as a copy editor. It includes practice in news handling, news judgment, preparation of copy, and display of news.

COMM-222 Publication Design (3) O/SI

Involves the study of printing processes, typography, informational graphics, layout, and design as they apply to the printed media. Students use current software to create projects such as brochures, ads, logos, and newsletters on Macintosh computers.

COMM-223 Photojournalism (3) O/SII

Provides experience in the technical and aesthetic process of conceiving, photographing, and producing photojournalistic materials. The course includes writing and photographic (camera and computer processing) techniques.

COMM-230 Voice and Diction (3) O/SI

Focuses on methods and exercises for voice improvement, including vocal variety, quality, range, articulation, and pronunciation.

COMM-231 Introduction to Speech Pathology and Audiology (3) D

Introduces speech and theatre education majors to basic speech and hearing disorders.

COMM-232 Oral Interpretation (3) Every 3 yrs., SII

Provides the student with skills in the oral performance of texts. The student learns how to analyze and present various cultural and literary texts including personal narratives, folklore, prose, and poetry. Emphasis is placed on the development of performance techniques through an effective use of voice and body.

COMM-240 Communication Research Methods (3) SII

Examines quantitative and qualitative research methodology pertinent to the field of communication.

COMM-310 Programming (3) Every 3 yrs., SII

Studies factors influencing programming decisions for electronic media. Examines theories of audience behavior, demographic and psychographic characteristics, marketing theory, quantitative and qualitative audience ratings systems, and entertainment considerations.

COMM-311 Writing for Electronic Media (3) O/SI

Studies the methods used in gathering, reporting, writing, and editing electronic news. The practical use of audio and video equipment used in electronic newsgathering is emphasized. Newsgathering, reporting, and interviewing assignments are performed in conjunction with the University's WICR News Department and University of Indianapolis television. Also familiarizes students with other genres with which a writer must be familiar, including radio and television commercials and public service announcements, documentaries, and dramatic scripts.

COMM-312 Sports Media (3) O/SI

Applies broadcasting and print journalism techniques related to sports coverage in the radio, television, newspaper, and sports information fields. Emphasis is placed on the writing, research, delivery, spot coverage, and marketing of sporting events as well as live game broadcasts including play-by-play, color commentary, and field production.

COMM-313 Television Directing (3) Every 3 yrs., SI

Develops skills in control room, studio, and on-the-scene techniques used in producing and directing the finished television production. The course is concerned with the style, special effects, and artistic decisions used in a television program.

COMM-314 Communication Technology (3) O/SII

Introduces students to the fundamental concepts and emerging trends in voice, video, and data communication. Provides an overview of the technologies involved in telephone, radio, television, cable, and satellite transmission as well as the application of computer technologies to electronic media and business communication.

COMM-320 Writing for Print Media (3) O/SII

Involves advanced interviewing and research techniques as well as the reporting and writing of complex stories for general and specialized audiences. *Prerequisite: COMM-220.*

COMM-321 Public Relations Principles (3) O/SI

Introduces the fundamentals and practices of public relations with emphasis in practical programs of the large or small company and nonprofit organizations. Included in the study are marketing and advertising techniques, newswriting, public affairs reporting, basic photography, and basic layout and design. Problem solving for crisis situations and contingency plans for emergency situations are studied. *Prerequisite: COMM-222 strongly recommended.*

COMM-322 Public Relations Methods (3) O/SII

Offers the student an opportunity to put the theory taught in COMM-321 Public Relations Principles into practice through exercises and skill development. Students learn to employ the methods used in creating and implementing a public relations campaign. *Prerequisite: C- or better in COMM-321.*

COMM-323 Magazine Writing and Editing (3) Every 3 yrs., SII

Focuses on the writing and preparation of copy for magazine publications. Students study magazine markets and plan, gather, organize, write, and edit materials for specialized and general circulation magazines.

COMM-324 Public Relations Analysis (3) O/SII

Surveys, analyzes, and evaluates various approaches to actual public relations situations, problems, issues, and opportunities. Methodological models are explicated and applied to such areas as current events, media relations, employee relations, community relations, and crisis communication. Focus is on public relations case studies and problem solving. *Prerequisite: C- or better in COMM-321.*

COMM-330 Group Communication (3) O/SI

Examines communicative interaction in small groups. Students study theory and research in group communication, participate in discussions, and develop skills in small-group transactions. Stress is placed on verbal and nonverbal messages, problem solving, norms, roles, cohesiveness, conflict, and leadership.

COMM-331 Interpersonal Communication (3) O/SII

Provides the student with information, insight, and current theory concerning communication on an interpersonal level. Emphasis is placed on self-awareness, self-disclosure, barriers, supportiveness in verbal transactions, nonverbal messages, message reception, and interpersonal relationships. The student is given the opportunity and specific means for learning and internalizing the relevant concepts through research and experiential vehicles.

COMM-332 Argumentation and Debate (3) Every 3 yrs., SI

Introduces the student to argumentation theory and public debate. Instruction centers on analysis of propositions, reasoning, research skills, discovery and evaluation of evidence, issue development, and techniques of persuasion and argumentation. Participants study and experience various formats for public debate.

COMM-340 Persuasion (3) O/SII

Approaches persuasion from a consumer viewpoint and emphasizes the role of persuasion in a variety of settings, including advertising, politics, and social movements. Theories of persuasion, mass media, and attitude change also are surveyed.

COMM-341 Topics in Communication (1-3) Every 3 yrs., SII

Focuses on topics of interest in the communication field that are not offered by the department on a regular basis.

COMM-410 Media Sales and Marketing (3) O/SII

Emphasizes the commercially operated media and includes an examination of marketing and promotion concepts and the pragmatic strategies and techniques utilized by media personnel to generate revenues through the sale of advertising.

COMM-411 Media Genres and Criticism (3) Every 3 yrs., SII

Focuses on developing media literacy, using familiar electronic media genres such as the documentary, situation comedy, the private detective serial, and the soap opera, among others. The course examines media syntax and investigates its impact on the various cultural traditions in society.

COMM-420 Media Management (3) O/SI

Acquaints the student with the principles associated with successful management in the mass communication industries. Management is seen from the perspective of technical, social, and practical skills.

COMM-421 Information Gathering and Dissemination (3) Every 3 yrs., SII

Introduces techniques for locating, collecting, and using information in a media environment. Topics include computer-assisted reporting, journalistic source development, investigative reporting techniques, access laws, government information, and the legal and ethical responsibilities associated with information gathering.

COMM-430 Organizational Communication (3) O/SII

Provides a detailed analysis of organizational theories and variables that affect practices in business, governmental, and professional organizations. Students examine and evaluate behaviors through case study and field observation of communications and management strategies.

COMM-431 Gender and Communication (3) O/SI

Explores the complex relationships among women and men and communication from theoretical and practical perspectives. Differences in communication patterns of men and women are studied in a variety of contexts.

COMM-432 Public Address and Criticism (3) Every 3 yrs., SII

Examines the role of public discourse in American society. Students will read, listen to, and watch great speeches that have had an impact on society. Emphasis will be placed on rhetorical theory and criticism.

COMM-440 Communication Law (3) SI

Provides students an overall understanding of communication law. History and evolution of journalism and broadcast law, the Communication Act of 1934 as amended, and FCC procedures and rules are emphasized.
Prerequisite: Junior or senior standing.

COMM-441 Senior Project (1) A

Serves as the culminating experience of the Communication curriculum. Students will compile a portfolio, make an oral presentation, and plan and execute an event to the approval of a jury of Communication faculty.
Prerequisite: Senior standing.

COMM-442 Communication Internship (4 or 8) A

Places students in environments suitable to the use of their communication skills. Length of time is commensurate with the number of academic credits. Supervision of the students is the responsibility of the immediate supervisor. A grade of S or U is assigned. *Prerequisites: Junior or senior standing, 2.3 cumulative GPA, 2.5 GPA in major, and 18 hours of coursework in major, including at least three hours of applied communication courses.*

Community Programs Courses

Community Programs courses are offered through the Community Programs Center. Information about the Center can be found in the section entitled Student Activities and Cocurricular Programs.

CSL-150 Community: Learning and Serving (3) SI

An introductory course in the study of community and community life. The learning is accomplished through both traditional classroom instruction and community-based service learning endeavors that reinforce the

classroom instruction. Basic issues of community are covered in the class, including community theory, community research methods, diversity, community planning, and community organizing and organizations. Service learning dominates the second half of the class with students placed in agencies in the Southeast Neighborhoods that have long-standing partnerships with the University. Participation in the UIndy Service Learning Expo is required of all students.

CSL-450/SOC-401 Undergraduate Community Project (3–5) SI

A capstone course for the minor in Civic Engagement and Community Leadership and the Social Sciences Concentration in Community Organizing. The course combines classroom instruction on issues related to community leadership, community planning, community organizing, fund raising, and nonprofit agency management. The goal of the course is to prepare students for a service learning project in collaboration with one of the University's partnering agencies in the Southeast Neighborhoods of Indianapolis. These service learning projects represent a capstone experience for students and projects would be required to provide something of lasting value to the community. Participation in the UIndy Service Learning Expo is a requirement of the course.

CSL-480 Topical Seminar in Community Service Learning (3) D

This is a variable topics course; the topic for a given semester is announced prior to registration for the semester, having been selected in response to student needs and wishes. A student may receive credit for more than one CSL topical seminar if a different topic is covered each time. *Prerequisite: CSL-150 or SOCS-225.*

Computer Courses (School of Business)

The following computer courses are offered through the School of Business. Information about the school and its majors and minors can be found in the section entitled Academic Units.

The following courses include those for the associate degree in computer information systems and the bachelor's degree in computer information systems. All courses below require access to hardware/software outside of class time.

COMP-150 Microcomputer Applications (3) A

Course designed to introduce the student to Microsoft Word, Excel, Access, and PowerPoint, as well as the Internet. A Windows (Microsoft) environment is used. A counterpart course may be taught on the Macintosh.

COMP-160 Advanced Microcomputer Applications (3) SI

Course designed to introduce the student to some of the advanced features of Microsoft Word, Excel, Access and PowerPoint, as well as the Internet. A Windows (Microsoft) environment is used. *Prerequisite: Extensive experience with Microsoft Office. Enrollment in this course is at the discretion of the instructor.*

CIS-151 Introduction to Information Systems (3) A

The purpose of this course is to provide an overview of information systems. It is a survey course looking at a number of topics in information systems. Much of the semester is spent reviewing the interrelationships between the organization and information systems. A number of information systems terms are defined and explained over the semester. *Prerequisite: None.*

CIS-153 Visual Basic (3) SI

Introduction to programming applications for Windows using event-driven and object-oriented techniques. The course is taught using Microsoft's Visual Basic. *Prerequisite: CIS-151 (preferred).*

CSCI-255 C/C++ Language Programming (4) D

This course provides an introduction to computer programming using the C/C++ programming language. A previous course in computer programming will be helpful but is not required. C++ has both structured and object-oriented features and has many low-level features for a high-level language. These help make the language a popular choice for developing many types of programs. This course will help the student understand fundamental programming concepts and develop good programming style (methodology). May be taken for credit in either the Mathematics Department or the School of Business. *Prerequisite: CIS-151 (preferred).*

CIS-258 Web Design (3) SII

This course provides an introduction to Web site design and development. It focuses on the development of Web sites for business purposes. The development of the Web sites will be performed using XHTML along with other development tools as needed. *Prerequisite: CIS-151 (preferred).*

CIS-262 Database Programming (3) D

This course looks at the use of a database environment. The emphasis of the course is on the use of the application to support an organization. *Prerequisite: CIS-151.*

CIS-351 Information Systems Management (3) SII

This course provides an understanding of organizational systems, planning, and the decision-making process. It also discusses how information is used for decision support in organizations. It details the concepts of information systems for competitive advantage. Various software packages will be used to supplement the conceptual material. *Prerequisite: CIS-151.*

CIS-353 Programming Languages (3–4) SI

This course involves the study of a programming language. The actual language (e.g., COBOL, SQL, and Excel) typically will vary from semester to semester. This course is repeatable for credit as long as the course covers a different language. *Prerequisite: CIS-151 and as needed depending on the specific language taught.*

CIS-354 Database Systems (3) SII

This course is designed to help a student develop an understanding of various database systems in use today. The class will consist of both conceptual and hands-on use of database systems. *Prerequisite: CIS-151.*

CIS-355 System Analysis (3) SI

This course provides an understanding of the system development and modification process. It enables students to evaluate and choose a system development methodology. It emphasizes the use of research methods to gather the needed requirements from the users along with detailing various structured approaches to document the requirements. Various software packages will be used to supplement the conceptual material. *Prerequisite: CIS-151.*

CIS-356 Database Design (3) SII

This course covers information systems design and implementation within a database management system environment. This course is a continuation of the System Analysis course. Students will demonstrate their mastery of the design process acquired in earlier courses by designing and constructing a physical system using database software to implement the logical design. Various software packages will be used to supplement the conceptual material. *Prerequisite: CIS-151 and 355.*

CIS-359 Information Systems Project (3) SI

This course covers system analysis, physical design, programming, testing, and implementation of a database system using the skills learned in previous courses. This course is a continuation of the System Analysis course and the Database Design course. Various software packages will be used to supplement the conceptual material. *Prerequisite: CIS-151, 355, and 356.*

CIS-420 Special Topics in Information Systems (topic to be determined) D

This is a special topics course in information systems, and prerequisites and credit hours are to be determined based on the specific material to be covered. This course is repeatable for credit as long as the course covers a different subject. *Prerequisite: CIS-151 and as needed depending on the specific language taught.*

CIS-453 Software Engineering (3) D

This course is designed to provide an understanding of software development and management. Various techniques will be examined to track productivity along with increasing productivity. *Prerequisite: CIS-151.*

CIS-454 Business Intelligence (3) SI

This course is an introduction to Business Intelligence. Business Intelligence refers to the use of computers to analyze complex information about an organization and its competitors for use in business planning and decision making. The objective is to create more timely and higher-quality input to the decision process. *Prerequisite: CIS-151.*

CIS-455 Internship in Information Systems (1–4) D

This course allows students to earn credits for work being performed in an internship. Considerable documentation and contact with the faculty is required. If a student wants to take this course for credit only, approval of an information systems faculty member is required prior to taking this course. If the student wishes this course to substitute for another information systems class, approval of the director of undergraduate business programs is required. Minimum GPA requirements apply. *Prerequisite: CIS-151.*

CIS-456 Information Systems Senior Seminar SII

This is the senior capstone course, which covers the factors necessary for successful management of system development or enhancement projects. The focus is on management and development for enterprise-level systems. To take this course, students must be seniors and have completed most of the other information systems classes. *Prerequisite: CIS-151, 351, 355, and 356, and senior standing.*

Computer Science Courses (Mathematics and Computer Science Department)

Computer science courses are offered through the Mathematics and Computer Science Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

CSCI-130 Microcomputer Applications (3) A

An introduction to microcomputer-based applications, including an overview of the history, societal impact, hardware, operating systems, and terminology of computing. Students will gain knowledge of and experience with commercial software including word processing spreadsheets and databases; coverage will include communications and graphics software. Does not count toward a mathematics major or minor.

CSCI-132 Software Applications for the Sciences (2) A

An introduction to microcomputer-based applications in the sciences, including an overview of computer history and the terminology of computing. Emphasis will be placed on the use of spreadsheets and word processing as tools for analyzing scientific data and for writing technical reports. Does not count toward a mathematics major or minor.

CSCI-152 Pascal Programming (3) A

This course provides an introduction to computer programming using the Pascal programming language. Emphasis will be placed on learning to formulate solutions to problems in terms of Pascal. The student will gain practical experience in program design, coding, debugging, and testing. Fundamental problem-solving techniques that are used to solve real-world problems in mathematical/scientific applications will be explored.

CSCI-155 Introduction To Programming Using C++ (4) SI/D

This course provides an introduction to computer programming using the C/C++ programming language. A previous course in computer programming will be helpful but is not required. This course will help the student understand fundamental programming concepts and develop good programming style (methodology). May be taken for credit in either the Mathematics Department or the School of Business. *(Cross-listed as CIS-255.)*
Prerequisites: MATH-105 with a grade of C- or better, or consent of the department.

CSCI-156 Introduction to Object-Oriented Programming (4) SII/D

This course is a continuation of CSCI-155. Emphasis will be placed on the use of classes and other advanced features of the C++ programming language. Topics include object-oriented system design, inheritance, polymorphism, operator overloading, templates, exception handling, and abstract data structures. *Prerequisite: CSCI-155 with a grade of C- or better.*

CSCI-230 Computer Architecture (4) SI/D

This course is an introductory course in computer architecture. Students will learn about digital logic, the classical von Neumann model, machine-level representation of data, assembly language programming, and related architectural topics. Students will acquire an understanding of a computer system's functional components and their characteristics, interactions, and performance. *Prerequisite: CSCI-155 with a grade of C- or better.*

CSCI-240 Data Structures and Algorithms (4) SII/D

This course will teach the student to use the classical abstract data structures (including linked lists, stacks, queues, and trees). These tend to play important roles in almost all large and important software systems. The student also will study sophisticated algorithms, many of which rely heavily on recursion, and learn how to measure and compare their computational complexity. These include, for instance, advanced searching and sorting techniques. Other topics include the role and the use of the containers and algorithms in the Standard Template Library (STL). *Prerequisite: CSCI-156 with a grade of C- or better.*

CSCI-310 Graphical User Interfaces (4) SI/D

A survey of some of the more modern popular programming languages, libraries, and software development tools that are used to implement programs featuring graphical user interfaces. Fundamental programming skills and understanding of the object-oriented programming paradigm are prerequisite. Students will design and implement programs in languages that feature object-oriented interface components. *Prerequisite: CSCI-156 with a grade of C- or better.*

CSCI-340 Computer Algorithms (4) D

This course is an introduction to the theory of computer algorithms. We will examine different types of computer algorithms, such as divide-and-conquer, greedy, backtracking, and dynamic programming. In addition, we will study the running time and complexity of some computer algorithms. *Prerequisite: CSCI-240 with a grade of C- or better, or consent of the department.*

CSCI-350 Programming Languages (4) SI/D

Fundamental topics in this course will include language, syntax, semantics, and software design. This will include the study/use of state diagrams and BNF grammars. The course will compare and contrast common computers' programming paradigms from this point of view. More emphasis will be placed on using the object-oriented programming paradigm. Students will construct a large software project. *Prerequisite: CSCI-240 with a grade of C- or better, or consent of the department.*

CSCI-370 Database Systems (4) SII/D

Students will learn the principles of database systems and database design as well as practical modeling and querying techniques. Emphasis will be placed on the relational approach. Related topics include the E-R Model, schema refinement, SQL programming, Internet databases, file organization and indexing, concurrency, data integrity, and security. *Prerequisite: CSCI-240 with a grade of C- or better.*

CSCI-380 Scientific Computing (4) D

This course is an introduction to scientific computing and numerical analysis. It introduces students to interpolation, approximation, and numerical integration. It will present numerical solutions for systems of linear equations, elimination, and iterative methods as well as error analysis. Numerical solutions of initial-value problems for ordinary differential equations also will be examined. *Prerequisite: CSCI-240 with a grade of C- or better, or consent of the department.*

CSCI-390 Internet Programming (4) D

The primary focus of this course is Internet Programming. This course will introduce students to different Internet programming languages, such as HTML, Java, and JavaScript, designed for programming on the World Wide Web. *Prerequisite: CSCI-240 with a grade of C- or better, or consent of the department.*

CSCI-400 Topics in Computer Science (2-6) D

Special topics in computer science. Prerequisites and credit hours determined by the instructor/topic.

CSCI-420 Computer Networks and Distributed Computing (4) SII/D

This course is about the design, structure, and use of computer networks. The student will learn about hardware and software used to build computer networks. Topics include parallel computing, messaging, structural alternatives, communication protocols, and security. Different network architectures will be compared. *Prerequisite: CSCI-240 with a grade of C- or better.*

CSCI-430 Software Engineering (4) SII/D

The student will learn about methods and tools that are commonly used to assist in the development and maintenance of large software systems. Topics include the software life cycle, product documentation, testing methods and strategies, tools (CASE), end-user considerations, software reuse, and project organization. This course involves a major software project in software design, providing one or more solutions to significant problems (posed by corporate partners, if possible). Students, working in teams, will develop system specifi-

cations, design documentation, program code, test documentation, and other deliverables. *Prerequisite: It is advised that the students take this course during their senior year.*

CSCI-450 Computer Graphics (4) SI

This course is an introduction to computer graphics. It will examine two-dimensional graphics methods and transformations. Three-dimensional graphics methods, including transformations, viewing geometry, object modeling, and interactive methods also will be presented. *Prerequisite: CSCI-240 with a grade of C- or better, or consent of the department.*

CSCI-460 Artificial Intelligence and Intelligent Systems (4) D

This course is an introduction to artificial intelligence and intelligent systems. The history, definition, and philosophical foundations of the discipline of artificial intelligence will be discussed, and the fundamental concepts in the discipline (such as knowledge representation, searching, and heuristics) will be presented. The myriad uses for artificial intelligence across the Internet and topics including expert systems, active agents, and neural networks also may be explored. *Prerequisite: CSCI-240 with a grade of C- or better, or consent of the department.*

Criminal Justice Courses

Criminal Justice courses are offered through the Social Sciences Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

CRIM-110 Introduction to Criminal Justice (3) SI

Study of agencies and processes involved in the administration of criminal justice: the legislature, the police, the courts, the prosecutor, corrections, probation and parole, and juvenile justice.

CRIM-120 Trends in Corrections (3) SII

Analysis and evaluation of contemporary correctional systems. Discussion of recent research concerning the correctional institution and the various field services.

CRIM-121 Corrections Service Learning Lab (1) SII

The course is designed to provide students with the opportunity to become involved in the work of a local community organization that seeks to alleviate social problems associated with crime and delinquency. Students spend 24 hours working at a local organization over the course of the semester and keep a journal of their experience, relating it to course material. *Corequisite: CRIM-120.*

CRIM-210 Criminal Investigation (3) O

Theory of investigation, crime scene procedures, interviews, interrogations, surveillances, and sources of information; collection and preservation of physical evidence; investigative techniques in specific crimes.

CRIM-220 Criminal Evidence (3) O

Basic rules of evidence as they apply in criminal justice from the collection of evidence through presentation in court, types of evidence, admissibility of evidence, and searches and seizures.

CRIM-230 Criminal Law (3) O

Theory, history, purpose, and philosophical concepts of criminal law; role of the Constitution and Supreme Court in criminal law; statutory considerations; and rights and responsibilities of officers in enforcing criminal laws.

CRIM-240 Constitutional Rights of Inmates (3) SII

In-depth examination of legal issues, constitutional challenges, developments, and decisions that affect the day-to-day operations of correctional institutions and jails. Specific issues related to inmates' rights and the management of inmates are examined. Emphasis is placed on understanding the legal and administrative bases that guide correctional professionals.

CRIM-250 Gender Issues in Law and Society (3) SII

The course examines the evolution of gender issues, from traditional roles to nontraditional roles, from an historical context to modern-day contemporary life. Gender is examined critically and reviewed at the macro and micro levels of various components of society with a focus on gender status, relationships, and treatment in different institutional, organizational, and group settings. Comparing the role of gender and its evolution in the United States to that of other countries, the focus will be on emerging and continuing issues of gender. *(Cross-listed with SOC-250.)*

CRIM-310 Juvenile Delinquency (3) SII

The juvenile justice system, including theory, administration, treatment, confinement, community resources, and the roles of police, correction facilities, and the juvenile court. *Prerequisite: SOC-101 or SOC-103.*

CRIM-330 Custody and Treatment (3) SI

Introductory survey of philosophy, theory, and practice involved in custody and treatment of convicted violators of all ages; supervision of inmates; security procedures; and enforcement of institutional rules and procedures relating to correctional supervision. Appraisal of correctional treatment on post-correctional behavior.

CRIM-331 Corrections Service Learning Lab (1) SI

The course is designed to provide students with the opportunity to become involved in the work of a local community organization that seeks to alleviate social problems associated with crime and delinquency. Students spend 24 hours working at a local organization over the course of the semester and keep a journal of their experience, relating it to course material. *Corequisite: CRIM-330.*

CRIM-340 Police Administration and Management (3) O

Course designed to provide a broad understanding of the police administration and management processes. Will include a detailed overview of the goals, standards, theories, and values needed by modern police administrators. Issues concerning cultural, social, economic, and environmental changes and challenges will be explored. *Prerequisite: Junior standing in criminal justice major or permission of instructor.*

CRIM-350 Internship in Criminal Justice I (4–8) A

Professional work experience in the field of criminal justice. The purpose of the practicum is to provide an opportunity for an advanced student to obtain a professionally supervised work experience in law enforcement, corrections, or related areas. *Prerequisites: Junior or senior standing; major in Criminal Justice; GPA of 2.3 or above; or consent of instructor.*

CRIM-355 Internship in Corrections (4–12) A

Professional work experience within the field of Corrections. This internship is a requirement for Criminal Justice majors with a concentration in Corrections. The purpose of this internship is to provide supervised work experience in Corrections, specifically in the areas of adult or juvenile probation or parole. *Prerequisites: Junior or senior standing; concentration in Corrections, GPA of 2.3 or above; or consent of instructor.*

CRIM-360 Internship in Criminal Justice II (4-8) A

Second or third field placement designed to broaden the student's field experiences. *Prerequisites: Junior or senior standing; major in Criminal Justice; GPA of 2.3 or above; or consent of instructor.*

CRIM-390 Understanding Addictions (3) D

This course studies the dynamics of the addictions process including causation, symptoms, consequences, prevention, and treatment options. Emphasis is on study of chemical dependency and the abuse of illicit chemicals; other addictive behaviors also are explored. *(Cross-listed as SOWK-390.)*

CRIM-410 Criminology (3) SII

Study of the nature, extent, and theories of crime. Students are introduced to the attempts to control crime, to the judicial process, and to the attempts to reform the criminal. *Prerequisite: SOC-101 or SOC-103.*

CRIM-420 Academy Internship (12) D

Professional certification as Law Enforcement Officer after successful completion of 15-week, in-house Basic Training course at the Indiana Law Enforcement Academy in Plainfield, Indiana. Limited to senior Criminal Justice majors with a concentration in Law Enforcement, bachelor's degree track, who have completed all University core and degree major course requirements. *Prerequisite: Department approval as well as final approval based on comprehensive background investigation by an accredited law enforcement agency.*

CRIM-425 Law and Society (3) SI

Examines the functions of law, the impact of law on human relationships within society, intended consequences of laws, and the role and impact of legal processes, institutions, and practitioners in national and international contexts. *(Cross-listed as SOC-425.)*

CRIM-430 Topical Seminar: Criminal Justice (3) D

Study of a particular area of criminal justice not covered comprehensively in one of the other advanced courses. The topic for a given semester is announced prior to registration for the semester, having been selected in response to student needs and interests. A student may receive credit more than once for CRIM-430 if a different topic is covered each time. *Prerequisite: CRIM-110 or consent of instructor.*

Earth-Space Sciences Courses

Earth-space science courses are offered in the Physics and Earth-Space Sciences Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

ESCI-100 Elements of Earth-Space Sciences (3) A

Introduction to the study of elements of physical geography, including integrated topics from meteorology, geology, oceanography, and astronomy. The course is designed to develop broad understanding of earth-space sciences and their relationships with other natural sciences. Two hours of lecture and two hours of lab per week. Not recommended for students who took Earth Science(s) in high school. Upper-level students have options to satisfy the general education core requirements in other courses: ESCI-150, 206, 207, 301, 310, and others in biology, chemistry, and physics. *Prerequisite: Math proficiency through MATH-090. Open only to elementary or middle school education majors or freshmen (26 credit hours or fewer) in other majors at time class is taken.*

ESCI-110 Freshman Seminar (1) SI

A general orientation to the University of Indianapolis for earth-space sciences and environmental science majors, including an introduction to literature and library resources in earth-space sciences. Scientific writing formats will be emphasized. *Required of all freshmen earth-space and environmental science majors.*

ESCI-150 Physical Geology (3) SII

Study of the earth, the rocks, and oceans that compose its surface, and the volcanic, deformative, erosional, and depositional forces that have modified it. One or two Saturday field trips may be taken. Course includes two hours of lecture and two hours of lab per week. *Prerequisite: Math proficiency through MATH-105.*

ESCI-202 Physical Geography (3) SI

Course will cover relationships within and between geology, meteorology, climatology, and oceanography. Various forms of maps and mapping (topographic, geologic, soils, climate, barometric, temperature) will be addressed. An Indiana Core 40 college-prep background, especially in the math and sciences areas, is presumed. Primarily for social studies, geography, and history teaching majors. Two hours of lecture and two hours of lab per week. *Prerequisites: EDUC-100 and IREL-204.*

ESCI-206 Historical Geology (3) SI

Study of the sequence of events through geologic time leading to the present continents, accounting for the kinds and distribution of rocks and fossils. One or two Saturday field trips may be taken. Course includes two hours of lecture and two hours of lab per week. *Prerequisite: Math proficiency through MATH-105.*

ESCI-207 Astronomy (3) SI

Introductory course concentrating on three primary areas: (1) observational techniques, (2) solar system astronomy, and (3) stellar and galactic astronomy. During each portion of the course there is a laboratory emphasis on observation and hands-on learning. Some observation is scheduled every clear night that the course meets, using the University's Noblitt Observatory in Lilly Science Hall. *(Cross-listed as PHYS-207.) Prerequisite: Math proficiency through MATH-105 or consent of department.*

ESCI-210 Environmental Problems (3) SII/D

Study of the pollution of our present environment. The causes of these pollution problems and the damage that is being done are studied. Some solutions to the problems are discussed. May be taken for chemistry or earth-space sciences credit. *(Cross-listed as CHEM-210.)*

ESCI-230 Introduction to Geographic Information Systems (2) A

Course designed to provide concentration on computer mapping (GIS) and data interpretation skills common to earth, environmental, health, social sciences, business, and other disciplines. Course will include use of GPS data, aerial photos, satellite imagery, and related information. Course also will include general mapping concepts. *Prerequisite: Math proficiency through MATH-105 or consent of department.*

ESCI-265 Ecology (4) A

Study of interactions between organisms and their physical and biological environments. Includes study of physical factors, biochemical cycles, population dynamics, and population interactions. Students will design and complete an independent research study. Three lectures and one two-hour laboratory period per week. *(Cross-listed as BIOL-265.) Prerequisites: BIOL-155.*

ESCI-270 Earth and Environmental Science Seminar (.5) SI

Builds on foundation of Freshman Seminar. Sequenced reading, writing, and research proposal formulation projects and presentations. *Required of all earth-space and environmental science majors during each of the sophomore, junior, and senior years.*

ESCI-301 Meteorology: Weather and Climate (3) O/SI

An upper-level introduction to the study of composition, structure, and circulation of the atmosphere, including elementary theory of storms and other weather disturbances. Course includes two hours of lecture and two hours of lab per week. *Prerequisite: College algebra, MATH-180 or equivalent, or consent of instructor.*

ESCI-310 Oceanography (3) O/SII

An upper-level introduction to the geology, physics, chemistry, and biology of the marine environment. Two hours of lecture and two hours of lab per week. *Prerequisite: Math proficiency through MATH-105.*

ESCI-320 Practicum (3–6) D

Practicum experience designed to serve as an introduction to a professional work experience in the field. Students are placed under the supervision of a professional practitioner in an earth-space or science-related organization. *Prerequisite: Consent of department.*

ESCI-365 Field Studies in the Earth-Space Sciences (1–4) D

Field trips, field projects, and field work are selected by the instructor and student to enhance and broaden the student's experiences in the geological, atmospheric, astronomical, or environmental sciences. Field techniques, data gathering, data presentation, and analysis will be emphasized. Some walking and climbing may be required. Course may be taken more than once but not more than a total of four credit hours. *Prerequisite: Consent of instructor or department.*

ESCI-402 Minerals and Rocks (3) O/SI

Study of the identification of common minerals and the rocks they form—their origins, relationships, properties (petrology and petrography), and economic applications. One or two Saturday field trips may be taken. Course includes two hours of lecture and two hours of lab per week. *Prerequisite: Math proficiency through MATH-105.*

ESCI-403 Paleontology: Fossils (3) O/SI

Study of the governing principles, evolution, classification, and distribution of fossils; includes the geologic history and paleoecology of plants, vertebrates, and invertebrates (emphasis is on the invertebrates with little, if any, emphasis on vertebrates). One or two Saturday field trips may be taken. Course includes two hours of lecture and two hours of lab per week. *Prerequisite: Math proficiency through MATH-105.*

ESCI-410 Hydrogeology (3) O/SII

Study of the principles of surface and ground water as a resource with emphasis on the practical application of techniques to water-well and groundwater reservoir problems. Saturday field trips may be taken. *Prerequisites: ESCI-100 or 202 or 205 or 206 and MATH-180 or consent of department.*

ESCI-420 Energy Resources (3) D

Study of a variety of renewable and nonrenewable energy resources vital to the economy of the United States and the world. The origin of and exploration for oil, gas, coal, and uranium will be highlighted. Alternative

energy resources and the environmental impact of energy resource development will be an integral part of the course. Saturday field trips will be planned.

ESCI-430 Topics in Earth-Space Sciences (1–4) D

Study of selected specific areas in earth-space sciences not covered by the established curriculum. These subjects are timely or focused toward student and market needs. Topics will be announced prior to semester registration. A student may receive credit more than once for different topics.

ESCI-490 Senior Research (1–3) D

Introduction to the procedures and practices of scientific research. The student will be expected to pose a problem, suggest procedures to be used to solve the problem, and then work toward its solution. A final written report is required. *Prerequisite: Senior standing or consent of department.*

Economics Courses

Economics courses are offered through the School of Business. Information about the school and its majors and minors can be found in the section entitled Academic Units.

ECON-110 Microeconomics (3) A

Covers the introductory tools of economic decision making of single economic units such as households and businesses.

ECON-111 Macroeconomics (3) A

Covers the introductory tools necessary in analyzing the workings of an economy. Covers topics such as the determination of gross national product, inflation, unemployment, and international linkages.

ECON -210 Intermediate Microeconomics (3) SII

Emphasis is given to the application of microeconomic decision tools to managerial decision making for a company facing various national or international competitive environments. *Prerequisite ECON-110.*

ECON -211 Intermediate Macroeconomics (3) SI

Provides an analysis of an economy in the context of a model that describes the workings of demand and supply sides of a national economy with linkages to international markets. Application of theory is emphasized. *Prerequisite: ECON-111.*

ECON-363 Money and Banking (3) SI

Covers the definition and the process of money creation and the role of financial intermediation. The regulation of financial institutions and the role of the Federal Reserve in the design of monetary policy also are covered. *Prerequisite FIN 210 and ECON 262. (Cross listed as FIN-340.)*

ECON-386 Quantitative Methods (3) SI

Quantitative methods and modeling techniques used to support management decision making. The following topics are covered: brief review of probability and distribution; decision analysis; utility and decision making; forecasting; linear programming; transportation, assignment, and transshipment problems; integer programming; queuing modeling, computer simulation, and multi-criteria decision problems. *Prerequisite MATH-220 or MATH-280. (Cross-listed as SCM-386.)*

ECON-410 Econometrics (3) SII

The course introduces students to applications of statistical tools. Students will learn how to conduct and critique empirical studies in economics. The emphasis is on applications. *Prerequisites: MATH-220 or MATH-280, ECON-211, and ECON-386.*

ECON-461 Economic Development (3) SI

Studies the issues of developing countries in the current global environment and provides different models of development strategies that countries may follow. *Prerequisite: ECON-111.*

ECON-464 Comparative Economic Systems (3) SI

Analysis, comparison, and evaluation of ways an economy may solve economic problems. *Prerequisite ECON-111 or permission of the instructor.*

ECON-465 Economics of Fiscal Policy (3) SI

Federal and local government policies of spending and taxation are discussed. Theory of taxation and national fiscal problems and issues are given emphasis. *Prerequisites: ECON-110 and ECON-111 or the permission of the instructor.*

ECON-467 International Financial Management (3) SII

Topics covered are balance of payments, determination of exchange rates, and decision-making tools for multinational companies. *Prerequisites: ECON-111 and FIN-210. (Cross listed as FIN-420.)*

ECON-485 Seminar in Public Policy (3) SII

Current economic issues in the United States are discussed. The topics may vary according to existing issues at the time of coverage. Typical issues are: energy, environment, labor and collective bargaining, immigration, education, and poverty. *Prerequisites: ECON-210, 211, and 465.*

Education Courses

Education courses are offered through the Teacher Education Department. Information about the department and the teaching majors and concentrations it offers can be found in the section entitled Academic Units.

EDUC-091 BUILD Math I (3) SI

Designed for students in the BUILD program (Baccalaureate for University of Indianapolis Learning Disabled). The focus of the course is arithmetic, real numbers, linear equations and inequalities in one variable, applied problems, and polynomials. *Credit/no credit grading.*

EDUC-093 BUILD Study Skills (.5) SI

Designed for students in the BUILD program. The focus of the course is on organizing, note-taking, test-taking, and research. The class will meet for one hour twice a week. *Credit/no credit grading.*

EDUC-100 Exploration in Education (2) SI/SII

Explores some of the areas that contribute to the whole of education, with two consequences in mind. Two goals of the class are (1) to give those who may be considering a career in education some basis for making a major career decision and (2) to provide those who have elected to pursue a major in education some insights into

the topics they will encounter during their preparation and subsequent classroom experiences. Selected issues and problems are considered. *Required for all teaching majors. Open to all students. Field experiences required.*

EDUC-101 BUILD Math II (3) SII

Continuation of BUILD Math I, focusing on geometry, graphing straight lines, graphing and linear systems of equations, rational expressions, rational equations and complex fractions, radical expressions, and quadratic equations. Restricted to students in the BUILD program. Successful completion of BUILD Math I with a CR and BUILD Math II with a C or above represent demonstration of math proficiency.

EDUC-110 Freshman Seminar in Education (1) SI

A general orientation to the University of Indianapolis and the teaching profession for teacher education majors. *Credit/no credit grading.*

EDUC-203 Psychology of Development, Learning, and Instruction (4) SI/SII

Provides a foundation for the reflective teacher. Reflective teachers draw on theories and concepts from both educational and developmental psychology to plan and evaluate instruction and to be responsive to individual learners. In this course students will have an opportunity to study the field of human development and psychology as they relate to learning and teaching. The study of human development will focus on the period from birth to late adolescence. Typical development in adulthood also will be explored. Course required for all levels of licensing. *Register concurrently with EDUC-204. Prerequisite: EDUC-100 with a grade of C or higher.*

EDUC-204 Field Experience (.5) SI/SII

Field experience provides students with an opportunity to develop observational and reflective thinking skills, apply concepts from EDUC-203, and analyze authentic learning environments. *Register concurrently with EDUC-203.*

EDUC-220 Technology in Education I (3) SI/SII

Prepares teacher education students to meet national and state standards for integrating technology into the classroom as an instructional tool. Instructional software, multimedia tools, the Internet, and other computer-assisted learning opportunities are utilized to meet learning needs of every student. Students spend considerable time in laboratory settings gaining hands-on experience with technology. They also learn about appropriate productivity software that will enhance their personal and professional lives.

EDUC-272 Introduction to Learners with Mild Disabilities (3) Y

Presents models and introduction to the characteristics, history, and identification of students with mild disabilities. Particular attention is devoted to understanding disability as a social construct, the impact of labels on children and families, and the concepts of cultural competence and normalization. Strategies of working collaboratively with other professionals and families to optimize the outcomes of the child in the inclusive classroom and community are stressed. *Course applies toward a special education license in mild interventions. A field experience is required. Prerequisite: Must be enrolled in or have completed EDUC-203/204.*

EDUC-290 Teaching in a Diverse Society (3) SI/SII

Examines the impact of our nation's increasingly diverse society on schools. Course provides an overview of the various cultural characteristics of students and how these differences have an impact on student behavior and achievement in the school environment. The course also explores the interaction of teacher and student

value systems regarding culturally different learners as a basis for fostering sensitivity to and respect for cultural differences. *Course required of all levels of teacher licensure.*

EDUC-300 Social and Political Contexts of Education (3) SI/SII

Teachers increasingly are being asked to assume leadership roles in their schools, districts, and communities and grapple with the problems and issues affecting students and their families. The primary goal is to help students begin to think systematically about how teaching and learning influence and are influenced by social arrangements, practices, and beliefs and help them begin to develop strategies for addressing those aspects that work against students' opportunities to learn. Students will be introduced to questions and issues in education that are of concern to educators, researchers, and various interest groups, and the various (at times contradictory) positions, policies, and practices that have been devised. *Course required for all levels of teacher licensure. Prerequisites: EDUC-203 with a grade of C or higher.*

EDUC-305 Curriculum and Methods for the Young Child (3) SI

Focuses on curriculum and assessment issues in early childhood education. Topics include child and school readiness, developmentally appropriate practice, formal and informal assessments, and role of play in learning. *Course required for elementary (primary and intermediate) licensure. Prerequisites: Admission to Teacher Education Program.*

EDUC-320 Technology in Education II (3) SI

Prepares students to meet technology standards and strategies for the integration and implementation of technology across the curriculum. Teachers design and develop lesson plans that incorporate the use of technology to address curricular needs. They also plan professional development activities for their building so that other teachers may become skillful technology users. Upon finishing this course, teachers demonstrate the value and function of instructional technology as a critical component to delivering 21st-century skills. Participants discuss the importance of maintaining an interest in and critical examination of developing trends in technology with emphasis on applications in education. *Participants need a working knowledge of computers as well as access to a computer and the Internet on a regular basis.*

EDUC-325 Teaching Math in the Primary Grades (2) SI

Prepares candidates to teach mathematics in kindergarten to second grade. Emphasis is placed on creating classrooms that encourage exploration and communication of ideas relating to numbers, patterns, shapes, and space. How to use informal and formal assessments to support learning and guide instructional decisions, ways to incorporate technology, and professional resources for mathematics teachers are addressed. *Course required for elementary (primary and intermediate) licensure. Prerequisites: MATH 208/210 with grades of C or higher and admission to Teacher Education Program.*

EDUC-326 Teaching Math in the Intermediate Grades (2) SII

Provides candidates with instructional strategies for teaching mathematics in grades three through six. Special attention is given to methods that promote multiplicative reasoning, equivalence, and computational fluency. Modeling and developing problem-solving strategies, using language and other representation systems to communicate concepts, and exploring cooperative learning structures are studied. *Course required for elementary (primary and intermediate) licensure. Prerequisite: EDUC-325 with a grade of C or higher and admission to the Teacher Education Department.*

EDUC-334 Developmental Literacy (3) D

Helps both candidates and practicing teachers assess and teach literacy in classrooms. Emphasis is placed on working with students with learning disabilities. Candidates develop proficiency in administering, scoring, and analyzing interest/attitude surveys, individualized reading inventories, and writing samples with a small group of students. Using the results of these diagnostic tools, the candidates design and implement one-on-one lessons to build on the strengths and meet the needs of students. *Course required for all-grade and secondary education teachers seeking an endorsement in Mild Interventions.*

EDUC-335 Literacy in the Primary Grades of Elementary School (4) SI

Focuses on children's literacy development in the primary grades (grades K–2). Instructional and assessment strategies are demonstrated and applied in field experiences (EDUC-338) developing phonemic awareness, phonics, fluency, vocabulary, and comprehension. Candidates learn about a balanced literacy program that includes reading aloud, shared reading and writing, guided reading and writing, word study, self-selected reading, and bookmaking. *Course required for elementary (primary and intermediate) licensure. Course taught on-site at a local school. Register concurrently with EDUC-338. Prerequisites: EDUC-203 with a grade of C or higher and admission to the Teacher Education Program.*

EDUC-336 Literacy in the Intermediate Grades of Elementary School (4) SII

Focuses on children's literacy development in the intermediate grades (grades 3–6). Instructional and assessment strategies are demonstrated and applied in field experiences (EDUC-339) developing fluency, vocabulary, and comprehension with fictional and informational texts. Candidates learn about literacy instruction through basal work, literature circles, reading-writing workshop, process writing, and content area reading-writing. Candidates learn to monitor students' literacy development through informal reading inventory and portfolio assessment. *Course required for elementary (primary and intermediate) licensure. Course taught on-site at a local school. Register concurrently with EDUC-339. Prerequisite: EDUC-335 with a grade of C or higher and admission to the Teacher Education Department.*

EDUC-338 Field Experience (1)

Register concurrently with EDUC-335.

EDUC-339 Field Experience (1)

Register concurrently with EDUC-336.

EDUC-360 Literacy and Pedagogy in the Content Areas (3) SI

Provides necessary background material and strategies related to new literacies across the curriculum. The course also integrates learning for unit and lesson planning. Students learn specific strategies related to new literacies and learning, with some emphasis on teaching English language learners. Students review traditional classroom materials, the role of supplemental texts, and applications of Web 2.0. The role of writing to learn also is addressed, with specific strategies and applications appropriate to various content areas. *Course required for secondary and all-grade licensure. Register concurrently with EDUC-371 and EDUC-365. Prerequisite: Admission to Teacher Education Program.*

EDUC-365 Middle Level/Junior High and High School Practicum (1) SI

Provides students with opportunities to design and implement lesson plans, assess student work, and evaluate the effectiveness of the instruction. *Register concurrently with EDUC-360 and EDUC-371. Prerequisite: Admission to Teacher Education Program.*

EDUC-371 Special Needs in the Secondary Classroom (3) SI

Provides a general introduction to the characteristics, history, and identification of students with mild disabilities. Students use case studies to assess student needs, plan differentiated instruction, and design behavior intervention plans. The course examines models of coteaching, strategies for working collaboratively with professionals and families, and applications of assistive technology to accommodate needs of diverse learners. *Course required for secondary and all-grade licensure. Register concurrently with EDUC-360 and EDUC-365. Prerequisite: Admission to Teacher Education Program.*

EDUC-372 Teaching Learners with Mild Disabilities (3) SI

Provides models of effective instruction for students with diverse learning needs who are educated in the general education classroom. An emphasis is placed on promoting culturally responsive teaching and strategies to differentiate and adapt instruction to accommodate exceptional learners. Curriculum that promotes the academic, social, and behavioral competence of students is demonstrated in addition to data-based instructional systems such as curriculum-based measurement. Applications of assistive technology to support learners are emphasized. *Course required for an elementary and special education license in mild interventions. Register concurrently with EDUC-373. Prerequisite: Admission to Teacher Education Program (elementary majors). EDUC-272 with a grade of C or higher or consent of the instructor. (Note: The second requirement pertains only to candidates seeking Mild Intervention License.)*

EDUC-373 Field Experience (1) SI

Provides students with the opportunity to work with students with diverse learning needs. Placement is based on license developmental levels. *Register concurrently with EDUC-372.*

EDUC-374 Assessment and Instruction of Learners with Mild Disabilities (3) SII

Presents various models of formal and informal assessment to discern the needs of students with diverse learning profiles. The linking of assessment and intervention to promote optimal outcomes for students is emphasized. Students learn to administer, evaluate, and interpret various tests, rating scales, and classroom-based assessments to determine appropriate instructional strategies. Assessment procedures by other service providers such as occupational therapists are observed. Curriculum-based assessment and measurement are used as an operational model to inform teaching and learning. Assistive technology applications are explored to support assessment and instruction. *Course required for an elementary and special education license in mild interventions. Register concurrently with EDUC-375. Prerequisites: EDUC-372 with a grade of C or higher and Admission to the Teacher Education Program.*

EDUC-375 Field Experience (1) SII

Provides students with the opportunity to work with students with diverse learning needs. Placement is based on license developmental levels. *Register concurrently with EDUC-374.*

EDUC-378 Family and Professional Collaboration (2) SI

Explores the dynamics of empowerment as a basis to develop effective school-family partnerships. The history of empowerment is explored along with requisite principles and strategies to promote collaboration and communication between families and professionals. The values and principles of a “system of care” approach that supports family voice and choice will be discussed and demonstrated. An emphasis is placed on understanding disability, cultural and linguistic biases, and barriers to shared decision-making from the perspective of the family and student. *Course required for a special education license in mild interventions.*

EDUC-385 Classroom Management Through Positive Behavior Support (3) SII

Presents a framework for creating an instructional environment based on positive behavior support and school-wide discipline. Knowledge and skills of proactive classroom management to promote the academic, behavioral, and social success of students is presented. These approaches range from the techniques of self-management to collaborative problem solving. Functional assessment and analysis as methods to determine causes of challenging behavior and academic failure are stressed. An overview of conflict resolution curricula is provided as are strategies to manage and prevent school-based needs. *Course required for a special education license in mild interventions. Field experience required. Prerequisite: EDUC-374 with a grade of C or higher or consent of the instructor.*

EDUC-386 Multimedia Presentation (3) SII

Introduces concepts and applications in the development of multimedia presentations. Course incorporates entry-level skills of Web development, image editing using Photoshop, digital movie editing, PowerPoint, principles of interactive multimedia authoring systems, and effective multimedia presentation design. *Prerequisite: Completion of computer requirement for major or permission of the instructor.*

EDUC-390 Methods of Teaching: Middle Level/Junior High and High School Subjects (3) SII

Explores the theories and methods of effective instruction in specific content areas (art, biology, business education, English, foreign languages, mathematics, music, physical education, science, social studies, and theatre). Students develop lesson plans and assessments, teach lessons using a variety of methods appropriate for the subject and developmental levels of diverse populations of students, incorporate appropriate technology and literacy elements, and critically reflect on their work. *Course required for secondary and all-grade licensure. Register concurrently with EDUC-391. Prerequisite: EDUC-365 or permission of instructor.*

EDUC-391 Middle Level/Junior High and High School Practicum (1) SII

Course provides students with opportunities to design and implement lesson plans, assess student work, and evaluate the effectiveness of the instruction. *Register concurrently with EDUC-390.*

EDUC-402 Science for Elementary Teachers(2) SI

Explores classroom organization and curriculum development in science for elementary teachers. Students learn management techniques, hands-on science activities, and methods for promoting, designing, and implementing science inquiry into various types of instruction. *Course required for elementary (primary and intermediate) licensure. Prerequisites: EDUC-326 and 336 with grades of C or higher or consent of the instructor.*

EDUC-405 Social Studies for Elementary Teachers (2) SII

Explores classroom organization and curriculum development in social studies for elementary teachers. Students learn to design and implement instructional and assessment strategies that help students conduct research, practice democratic citizenship, and learn age-appropriate content from the social studies disciplines. *Course required for elementary (primary and intermediate) licensure. Prerequisites: EDUC-326 and 336 with grades of C or higher or consent of the instructor.*

EDUC-420 Children's Literature (3) SII

Explores the many genres (both fiction and nonfiction) and formats (e.g., picture books, magazines, and media) of children's literature that are appropriate for use in elementary classrooms. Students learn how to evaluate texts for literary and visual quality and use these texts to support their future students' understand-

ing of themselves and the world around them. Special attention is given to motivating students to become lifelong readers. *Prerequisite: EDUC-335 with a grade of C or higher. Course required for elementary (primary and intermediate) licensure.*

In order to enroll in any of the supervised teaching courses listed below, a student must meet all criteria as outlined in the Teacher Education Undergraduate Handbook.

EDUC-471 Supervised Teaching: Primary/Elementary School (10) A

Observation, participation, and student teaching at the primary level under the supervision of a cooperating teacher and the direction of the University supervisor. *Prerequisite: Completion of all education and major requirements.*

EDUC-472 Supervised Teaching: Intermediate/Elementary School (10) A

Observation, participation, and student teaching at the intermediate level under the supervision of a cooperating teacher and the direction of the University supervisor. *Prerequisite: Completion of all education and major requirements.*

EDUC-480 Supervised Teaching: Reading (1) SII

Advanced study in the area of reading. Major trends and current issues in reading education are explored. Supervised experience, which includes diagnostic/prescriptive approaches for remedial reading, is provided. Course applies toward a reading license. *Prerequisites: Completion of all education and major requirements.*

EDUC-485 Supervised Teaching: Special Education (10-Elementary, 4-Secondary/All-Grade) A

Supervised interaction with students with mild disabilities experiencing significant difficulties in academic, social, and/or behavioral functioning. Placements are arranged at appropriate schools. *Prerequisite: Complete all education and major requirements.*

EDUC-492 Exit From Program Portfolio (.5) A

Students develop the Exit From Program Portfolio, a requirement for passing student teaching. *Course required for all levels of teacher licensure. Enroll concurrently with first student teaching placement. Prerequisite: Completion of all education requirements (elementary) or all education requirements (secondary/all-grade). Register concurrently with EDUC-471 or 472 (Elementary, Semester I) or EDUC-495 and EDUC-496 (Secondary/All-grade, Semesters I or II).*

EDUC-495 Supervised Teaching: High School (6) A

Observation, participation and supervised teaching under the supervision of a cooperating teacher and the direction of a University supervisor. *Prerequisite: Completion of all education requirements. Register concurrently with EDUC-496 and 492.*

EDUC-496 Supervised Teaching: Middle School (6) A

Observation, participation, and supervised teaching under the supervision of a cooperating teacher and the direction of a University supervisor. *Prerequisite: Complete all education requirements. Register concurrently with EDUC-495 and 492.*

EDUC-497 Special Topics in Education (1-3) Y

Group study in selected topics in elementary, middle, secondary, or curriculum development.

EDUC-498 Supervised Teaching: Elementary Experience (All-Grade majors only) (4-6) A

Observation, participation, and supervised teaching under the supervision of a cooperating teacher and the direction of a University supervisor. *Prerequisite: Completion of all education requirements. Register concurrently with EDUC-495 or 496.*

English Courses

English courses are offered through the English Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

ENGL-100 Basic Writing (3) A

Review of basic writing skills. Students are assigned to ENGL-100 on the basis of the English placement test. Students write short papers and focus on thesis development and paragraph construction; they also focus on strengthening their understanding and use of grammar and mechanics. Individual conferences are an important component of the class. Students must earn a C or better to receive credit for the course and to be allowed to enroll in ENGL-101. Students who do not earn a C or better in ENGL-100 will be required to repeat the course until a C or above is achieved. May not count on an English major/minor or the general education core.

ENGL-100 Basic Writing/BUILD (3) SI

Basic Writing (see description above) for students in the BUILD program.

ENGL-100 Basic Writing—ESL (English as a Second Language) (4) SI

Basic Writing (see description above) for non-native speakers with an additional component of listening and speaking. Students are placed in the course on the basis of the TOEFL or Verbal SAT and the English Department placement exam.

ENGL-101 English Composition* (3) A

A course designed to increase the student's ability to write clear, organized, vigorous expository prose with attention to the mechanics of English and correct grammatical forms. Students who are placed in ENGL-101 without having taken ENGL-100 and who receive a C- or lower will be assigned to ENGL-100 or a repetition of ENGL-101 at the discretion of the instructor. Students assigned to ENGL-100 must earn a C or above before repeating ENGL-101. Students reassigned to ENGL-101 will be required to repeat the course until a grade of C or above is achieved. An honors section of 101 may be offered each fall semester.

** Students may obtain credit for ENGL-101 (and thereby be able to enroll in ENGL-102) in one of the following ways:*

- 1. completing ENGL-101 with a grade of C or above.*
- 2. successfully completing (C or above) a college-level English composition course at an accredited college or university.*
- 3. obtaining a score of 3 or higher on the College Board Advanced Placement (AP) English Language and Composition exam.*
- 4. obtaining a passing score (420) on the College Level Examination Program (CLEP) English Composition with Essay exam.*

ENGL-101 English Composition/BUILD (3) SI/II

English Composition (see description above) for students in the BUILD program.

ENGL-101 English Composition—ESL (English as a Second Language) (4) A

English Composition (see description above) for non-native speakers with an additional component of listening and speaking. Students are placed in the course on the basis of the TOEFL or Verbal SAT and the English Department placement exam.

ENGL-102 Western World Literature and Composition (3) A

Introduction to the ideas and literary works that have shaped Western civilization. The student writes multiple assignments, some of which include research, and receives instruction in library research, in documentation of sources, and in the organization, revision, and preparation of a final draft. An honors section of 102 is offered annually. *Prerequisite: ENGL-101 with a grade of C or above.*

ENGL-105 Freshman Seminar in English (1) SI

Course designed to provide students in English and English teaching with an orientation to the University of Indianapolis in general and to the study of writing, literature, and editing in particular. This course fulfills the University's freshman New Student Experience requirement. *Required for all English majors.*

ENGL-210 Introduction of Literary Criticism and Theory (3) SI

This course introduces students to the art of reading and writing critically using various theoretical approaches and accurate literary terminology. Students also will learn the skill of close reading in order to develop their own ideas in dialogue with other critics using a variety of print and electronic sources.

ENGL-211 British Literature I (3) SI

British Literature I is a survey course that explores British Literature from its beginnings with Old English poetry to 1750 C.E. Students will gain skills in reading early literature and come to understand the culture that produced it. *Prerequisites: ENGL-101 and 102.*

ENGL-212 British Literature II (3) SII

Survey of English Literature from the late 18th century to the present, with reading of poems and fiction by a diverse range of British authors and examination of the cultural, social, and political forces shaping British literature from Romanticism to the present. *Prerequisites: ENGL-101 and 102.*

ENGL-213 American Literature I (3) SI

Survey of the major authors, literary movements, and minority voices from colonial beginnings to the Age of Romanticism, with emphasis on Bradstreet, Rowlandson, Franklin, Poe, Emerson, Thoreau, Douglass, Jacobs, Hawthorne, Melville, Whitman, and the oratory and poetry of the American Indian. *Prerequisites: ENGL-101 and 102.*

ENGL-214 American Literature II (3) SII

Survey of the major authors, literary movements, and minority voices from the Age of Realism to the present, with emphasis on Dickinson, Twain, Crane, James, Frost, Faulkner, Miller, Williams, and O'Connor, including representative works of women's literature, African-American literature, and Jewish literature. *Prerequisites: ENGL-101 and 102.*

ENGL-220 Advanced Composition: Expository Writing (3) A

Practice in the techniques of exposition to promote effective writing. Class activities include intensive discussion of student papers. Model essays and other works are examined to study strategies of expository writing. *Prerequisites: ENGL-101 and 102.*

ENGL-260 Language Study for Teachers (3) SI/O

An introduction to the structural and social aspects of human language. Topics essential to prospective teachers are first and second language acquisition, usage, dialects, and grammar. *Prerequisites: ENGL-101 and 102.*

ENGL-270 Introduction to Creative Writing (3) SI

Designed for majors and non-majors with little or no previous creative writing experience, this course will teach students the basic techniques of the craft of creative writing of fiction and poetry, though the course may include drama and nonfiction. Though taught in a workshop format that emphasizes student writing, it will also focus on the work of contemporary writers for inspiration and technique. *No prerequisite is required.*

ENGL-305 Portfolio Development (2) SII

A course for junior English and English Education majors to prepare a preliminary version of the required English Portfolio.

ENGL-310 Creative Nonfiction (3) D

This course will explore Creative Nonfiction as a genre of American literature. Sometimes called the Fourth Genre, Creative Nonfiction is a relatively new genre that always has been defined by its writers, not its critics. Therefore, the readings in the class challenge categorization into different eras or movements like fiction or poetry. Assigned texts may include work by Truman Capote, Joan Didion, John McPhee, Annie Dillard, Terry Tempest Williams, and John Krakauer. *Prerequisites: ENGL-101 and 102.*

ENGL-311 Short Story (3) O

This course explores the short story as an international and multicultural literary genre, with emphasis on recent and innovative works. Particular attention will be paid to the development of the form, especially from the perspective of practitioners of the form. *Prerequisites: ENGL-101 and 102.*

ENGL-316 Popular Literature (3) D

This course explores literary genres and modes designed to appeal to a mass audience. Subjects may include science fiction, horror, mystery and detective fiction, romance, “chick lit,” literature into film, and pulp fiction. Students will explore the relationship between popular literature and “high” culture, the social and political contexts of literature, and the role of marketing and distribution practices. This course may be taken twice for credit, provided the course content is new. *Prerequisites: ENGL-101 and 102.*

ENGL-325 Poetry (3) O/SII

This course not only introduces students to the terms and techniques used in studying and analyzing poetry but also aims at broadening students’ understanding and appreciation of (and delight in) poetry. *Prerequisites: ENGL-101 and 102.*

ENGL-330 Drama I: An Historical Survey (3) O

Introduction to historical and artistic developments in dramatic literature. This course provides a survey of the theatre from its classical Greek beginnings to the end of the 19th century. Stressing the relationship between social, religious, and political pressures, the course touches on major figures and movements in Western cultures in order to provide a basis for understanding today’s theatre. *Prerequisites: ENGL-101 and 102.*

ENGL-331 Drama II: Contemporary Drama (3) Y

Historical and critical examination of the major developments, personalities, and achievements in drama in

the 20th century. The course examines the interplay of philosophical and aesthetic changes and their influences on the theatrical product. Principal playwrights include Pirandello, Miller, Beckett, Fugard, and Wilson. *Prerequisites: ENGL-101 and 102.*

ENGL-340 Novel (3) O/SI

This course provides a study of the historical development of the novel as a genre from its 18th-century origins to the present day. Readings represent a diverse group of authors from a variety of cultural backgrounds. *Prerequisites: ENGL-101 and 102.*

ENGL-342 Women Writers (3) O

This course discusses women's writing as a literary tradition. Particular attention will be paid to the ways in which women writers from different time periods and cultures represent female subjectivity. *Prerequisites: ENGL-101 and 102.*

ENGL-343 Native American Literature (3) O

This course discusses Native American writing as a literary tradition. Particular attention will be paid to expanding students' knowledge of Native American histories and cultures in order to understand the myths, themes, and techniques that recur in the literature. *Prerequisites: ENGL-101 and 102.*

ENGL-344 African American Literature (3) O

This course discusses African American writing as a literary tradition. Particular attention will be paid to expanding students' knowledge of African American history and culture in order to understand the ways in which writers from different time periods explore recurrent themes, such as home, travel, music, and the intersecting axes of identity. *Prerequisites: ENGL-101 and 102.*

ENGL-350 Language Studies for Students of Writing and Literature (3) O/SI

Survey of the history of the English language that concentrates on (1) the external influences on the development of English, (2) the internal changes in the language (semantics, grammar, phonology), and (3) related linguistic issues (such as dialects and prescriptivism). Course objective is to put the history of the language in a social and philosophical context and to help students read English language texts of any period. May not be counted as a literature elective. *Prerequisites: ENGL-101 and 102.*

ENGL-365 Issues of Literacy and Language for the English Classroom (3) O/SI

This course examines the theoretical basis of teaching literature to young adults (grades 6–12). Students will read a variety of theories of teaching reading, examine critically the forces that keep adolescents from reading, and investigate the most current and research-based practices of teaching reading. *Prerequisites: ENGL-101 and 102. Junior standing required.*

ENGL-370 Poetry Writing Workshop (3) D

This course emphasizes the techniques of poetry and helps students discover a voice. Various sub-genres of poetry will be explored—from traditional forms such as sonnets and villanelles to the more experimental forms of prose/blues/jazz/hip hop poems—in order to broaden students' understanding and appreciation of the art of poetry writing and help them develop their style and voice. As part of the class, students also will have the opportunity to meet and hear contemporary poets and writers through the Kellogg Writers Series. *Prerequisite: ENGL-270.*

ENGL-371 Fiction Writing Workshop (3) D

Through writing exercises and discussion of student writing as well as that of published authors, students will learn about the techniques and craft of short story writing: plot and character development, setting, and point of view. Various sub-genres of fiction will be introduced to broaden students' knowledge and help to develop their voice and style. As part of the class, students will have the opportunity to meet and hear contemporary poets and writers through the Kellogg Writers Series. *Prerequisite: ENGL-270.*

ENGL-372 Etchings I: Manuscript Selection and Editing (1) SI

This course is to teach the process of compiling material for a literary and fine arts magazine. Class members will learn about the process of selecting manuscripts and artwork for publication in a magazine, of establishing criteria for selecting material for publication, and of reaching consensus for material to be included. The editing and preparation of manuscripts and artwork will be discussed. This course may be taken two times for credit. *Prerequisite: ENGL-270 or permission of the instructor.*

ENGL-373 Etchings II: Design and Publication (3) SII

The primary focus of this is the publication of UIndy's literary and fine arts magazine, *Etchings*. Students will learn about the printing and production process for a literary and fine arts magazine. This will include formatting and designing a literary and fine arts magazine, composing magazine pages using a desktop publishing program, editing and proofreading literary manuscripts for publication, and working with printers. This course may be taken two times for credit. *Prerequisite: ENGL-270 or permission of the instructor.*

ENGL-381 Substantive Editing: Making Text Readable (3) O

Study of the characteristics of easy-to-read text and of on-screen editing techniques to simplify difficult-to-read text while preserving the author's voice. Students learn to write better as well as to improve, through substantive revision, the writing of others. Emphasis is on conciseness, clarity, sentence variety, paragraph mastery, and style with grace. *Prerequisites: ENGL-101 and 102.*

ENGL-382 Basic Desktop Publishing: Adobe InDesign (3) SII/O

Hands-on introduction to the current version of InDesign. Students use this high-end desktop publishing program with Adobe's Classroom in a Book on InDesign to create on-screen a variety of documents at the student's own rate. Emphasis is on precise control of the program, editorial evaluation of the produced documents, and the concerns of a publisher's production department. Students are encouraged to market their newly learned skills in freelance desktop publishing assignments. *Prerequisites: ENGL-101 and 102.*

ENGL-383 Professional Editing (3) O

Acquisition of knowledge and skills required for on-screen copyediting of book manuscripts and long documents. An actual editing test acquaints students with publishing standards. Students gain proficiency to pass similar tests for full-time or freelance employment in the publishing industry. Emphasis on word processing techniques for on-screen revision. Students also learn word processing macros to automate editing tasks. *Prerequisites: ENGL-101 and 102.*

ENGL-384 Technical Writing and Editing (3) O

Study of on-screen writing and editing requirements of technical documents. Students learn about document design in technical communications. Students practice strategies for acquiring technical information from the World Wide Web and collaborating in technical writing and editing. The course includes information about technical writing and editing job markets. *Prerequisites: ENGL-101 and 102.*

ENGL-405 Portfolio Completion (1) SI

A course for English and English Education majors to prepare the final version of the required English Portfolio, taken during the fall of the senior year.

ENGL-410 Literary Theory and Criticism (3) O

Study of major schools of literary criticism. The course acquaints students with the ways in which verbal structures in general—but literary texts in particular—may be approached and understood, and how understanding of literary texts may be molded into coherent, developed arguments. *Prerequisites: ENGL-101 and 102.*

ENGL-411 Medieval Literature and Culture (3) D

This course examines literary texts from the beginnings of literature in the English language in the eighth century up to the Renaissance (1500). Students will read Old English poetry (in modernized texts) and Middle English literature along with a few brief non-literature pieces of historical and cultural significance. Cultural forms include the romance, religious treatises, lyric poetry, and drama. Information about medieval history and religion as well as cultural movements such as courtly love will enhance students' understanding of the literature of the period. *Prerequisites: ENGL-101 and 102. ENGL-210 strongly recommended.*

ENGL-412 Renaissance Literature and Culture (3) D

This course examines literary texts and literary movements in their cultural and historical contexts. Topics may include representative works of the poetry, drama, and prose (fiction and nonfiction) emerging during the 16th and early 17th centuries. *Prerequisites: ENGL-101 and 102. ENGL-210 strongly recommended.*

ENGL-413 Eighteenth- and Nineteenth-Century Literature and Culture (3) D

This course examines literary texts and literary movements in their cultural and historical contexts. Possible topics include Romanticism, the age of revolutions, realism, Victorian literature, fin de siècle literature, or a focus on a thematic preoccupation of 18th- and 19th-century writers, such as slavery, women's emancipation, or sciences and pseudosciences. *Prerequisites: ENGL-101 and 102. ENGL-210 strongly recommended.*

ENGL-414 Twentieth-Century Literature and Culture (3) D

This course examines literary texts, and literary movements, in their cultural and historical contexts. Possible topics include late realism, modernism, postmodernism, or a focus on a thematic preoccupation of 20th-century writers. *Prerequisites: ENGL-101 and 102. ENGL-210 strongly recommended.*

ENGL-415 Contemporary Century Literature and Culture (3) D

This course examines literary texts and literary movements in their cultural and historical contexts. Particular attention will be paid to postmodernism and 21st-century writers' responses to its texts and ideas. The impact of globalization on literary studies will be addressed also. *Prerequisites: ENGL-101 and 102. ENGL-210 strongly recommended.*

ENGL-435 Multicultural Literature (3) SI

This course discusses American works by minority authors as a literary tradition. Particular attention will be paid to the ways in which minority authors from different time periods and cultures represent their experiences in America. *Prerequisites: ENGL-101 and 102. ENGL-210 strongly recommended.*

ENGL-436 Postcolonial Literature (3) SII

This course discusses works by authors of colonized nations as a literary tradition. Particular attention will be paid to the ways in which postcolonial authors from different time periods and cultures present their perspectives on colonialism and postcolonialism. *Prerequisites: ENGL-101 and 102. ENGL-210 strongly recommended.*

ENGL-430 Shakespeare (3) SI

This class studies representative plays from Shakespeare's career, taking a chronological approach but spanning all principal genres—comedy, history, tragedy, and romance. Students approach Shakespeare's work as both theatre and literature, with some emphasis on contemporary social and political influences. The course objective is to enhance the appreciation of Shakespearean drama in both its original and modern contexts. *Prerequisites: ENGL-101 and 102. ENGL-210 strongly recommended.*

ENGL-440 Chaucer (3) SII/Once every three years

Reading in Middle English of the works of Geoffrey Chaucer. Students examine the moral vision, artistic unity, humor, and aesthetic beauty of Chaucer's art. Special attention is given to the narrative, dramatic, and poetic devices through which Chaucer's poetry achieves its effects. *Prerequisites: ENGL-101 and 102. ENGL-210 strongly recommended.*

ENGL-450 English Internship (1-4) A

Places students in settings in which they can practice writing and editing skills. Appropriate credit arranged for time spent. Workplace supervisor oversees work and English Department faculty member supervises and assigns grade (*Satisfactory or Unsatisfactory*).

ENGL-465 Teaching Writing: Theory and Practice (3) SII

An introduction to current theory and best practices in the teaching of writing at various developmental levels. *Prerequisites: ENGL-101 and 102.*

ENGL-471 Advanced Poetry Writing Workshop (3) Y

This class aims at furthering students' understanding of the craft and techniques of poetry writing. Though the primary focus will be on workshopping student writing, students also will read and discuss essays by poets about technique, style, and craft to enhance their understanding of the art of writing poetry and hone not only their ability to write but also to critique their own poetry as well as that of others. As part of the class, students will also have the opportunity to meet and hear contemporary poets and writers through the Kellogg Writers Series. *Prerequisite: ENGL-370.*

ENGL-482 Writing for the Web and Content Management Systems (3) Y

This course will prepare students to write and edit content for Web sites and other online venues that they design and implement. Sometimes, written content is lost on Web pages because of overpowering multimedia, bad design, poor editing, or many other reasons. Web 2.0 softwares allow almost anyone to develop a content-rich and interactive Web site that can integrate many users and provide relevant information. This course will focus on making readable text an integral part of every page of a Web site.

ENGL-489 Writing for Nonprofit Organizations (3) D

Students enrolled in this course will focus on the writing, editing, design, and persuasion skills needed to develop many documents for nonprofit organizations. Service learning projects throughout the semester will culminate in writing a grant proposal for a local nonprofit organization. *Prerequisite: ENGL-101 and 102.*

Entrepreneurial Courses

Entrepreneurial courses are offered through the School of Business. Information about the school and its majors and minors can be found in the section entitled Academic Units.

ENTR-280 Small Business Venture (3) SI

Provides essential knowledge for those interested in small business, including search for venture opportunities; economic, technical, and operational feasibility of venture, financing, marketing, and legal operations; and franchising and partnering. Exposure to Indianapolis Entrepreneurial Academy members and alumni/programs. *Recommended prerequisites of the knowledge of accounting and some finance.*

ENTR-332 Entrepreneurship (3) SII

Development and management of an entrepreneurial organization, including pre-start-up, start-up, survival, growth, and transition to professional management. Explains the function of entrepreneurship and corporate entrepreneurship. *Prerequisite ENTR-280.*

ENTR-443 Managing the Venture Financing Process (3) SI

Examines venture-financing options available for new business start-ups (SBA) and growing business (Small Business Development Center). Emphasizes creating and analyzing financial documents, approaching financial sources, selling stock for growing companies, and managing the venture's financial condition. *Prerequisite ENTR-280, ENTR-332, ACCT-210, FIN-210.*

ENTR-444 Small Business Practicum (3) SII

Teams of students consult with local small businesses recommended by the Small Business Development Center. Students work on problems in accounting, production, marketing, personnel, finance, insurance, law, and/or informational systems. *Prerequisite ENTR-443.*

ENTR-445 New Venture Creation (3) SII

Advanced business development/management entrepreneurship. Requires thorough research culminating in the development of a finished plan for written and verbal presentation of a for-profit business venture to (1) a board of outside professional experts and (2) a preferred SBA lender. *Prerequisite: ENTR-444.*

Experiential Studies Courses

EXST-101 Introduction to Experiential Studies (3)

This course introduces students to the methods and concepts of experiential learning using hands-on methods, experience design, and project management techniques. It can be taken as a stand-alone elective or serve as an introduction for students pursuing a major in Experiential Studies. There are no prerequisites.

EXST-399 Independent Study in Experiential Studies (3)

EXST-450 Internship in Experiential Studies (1-3)

Work experience in Experiential Studies at an approved site. Students are supervised on a day-to-day basis by a site supervisor and report to the instructor on a regular basis. Internships may be arranged during Semester I or II or in the summer.

EXST-480 Special Topics in Experiential Studies (3)

Examination of a topic not covered thoroughly in other Experiential Studies courses. Topics vary, and students may repeat the course for credit if the topic is different. This course is not open to freshmen.

Finance Courses

Finance courses are offered through the School of Business. Information about the school and its majors and minors can be found in the section entitled Academic Units.

FIN-210 Finance (3) A

This course provides an introduction to financial principles that can be utilized across multiple disciplines with the overall goal of maximizing shareholder value in the organization. The concepts of financial statement analysis, forecasting, leverage, working capital management, the time value of money, capital budgeting, security valuation, and capital markets will be addressed through both lectures and active approaches of problem solving and case discussions.

FIN-310 Real Estate Finance (3) SII

This course provides an introduction to the world of real estate finance through developing an understanding of essential topics and concepts including rights and ownership; title and sales contracts; lending practices including fixed rate, adjustable rate, and alternative financing; taxes and assessments; and escrow. Single-family residential property topics will include valuation, investment analysis, and tax considerations. Multi-family and commercial property topics will include property valuation, investment analysis, leasing, renting, financial leverage, and the markets involved. The subjects will be covered through lectures, guest presentations, and active approaches of problem solving and case discussions including group and individual programming. *Prerequisite: FIN-210.*

FIN-320 Financial Planning (3) SI

This course addresses the fundamentals of financial planning in order to make informed decisions related to spending, saving, borrowing, and investing that will lead to long-term financial security both for personal purposes and/or as a professional financial advisor. Topics include cash management and budgeting, tax strategies, housing decisions, investments, estate planning, financial independence/retirement planning, and insurance needs analysis. The course provides an active approach to learning the concepts by utilizing cases and allowing students to create their own financial plan. *Prerequisite: FIN-210.*

FIN-330 Risk Management and Insurance (3) SI

A study of risk and the risk management process begins the course. Types of applications of risk management include commercial risk, personal risk, and public risk. Each kind of insurance product is described fully and analyzed within the current marketplace. A study of the insurance industry's role in the economy, the financial markets, and the overall business community also is covered. The course provides in-depth analysis of the processing, investing, and evaluation of risk management. *Prerequisite: FIN-210.*

FIN-340 Financial Markets & Institutions (3) SI

This course provides an understanding of financial markets and the financial institutions that serve those markets. Topics include a review of the Federal Reserve and monetary policy, interest rate drivers and forecasting, debt security markets, equity markets, derivative security markets, commercial banking, and non-bank financial operations with the overall goal of understanding the flow of funds between corporations, govern-

ment, and individuals. An active approach to applying these concepts is utilized through real-world problems and cases. *Prerequisite: FIN-210.*

FIN-350 Investments (3) SII

This course provides an introduction to the world of investing and provides a solid foundation of core investment theories and practices. The concepts of markets, exchanges, trading, portfolio theories, risk and return, portfolio management, and the understanding and valuation of various securities including common stocks, bonds, preferred stocks, convertibles, mutual funds, options, and futures will be addressed through both lectures and active approaches of problem solving and case discussions. *Prerequisite: FIN-210.*

FIN-401 Financial Wellness (1) D

This course is designed to provide students with basic knowledge of core personal finance topics. It is required for the Healthy Diploma™ program and represents one of the ten indicators of personal health. The key elements of the course include understanding debt and credit, banking, automobile purchase or lease and financing options available, home purchase or rental and mortgage alternatives, establishing goals and developing a budget to achieve these goals, tax returns, insurance, investments, and retirement planning. *Prerequisite: Open to Healthy Diploma™ students only or permission of instructor.*

FIN-410 Derivative Securities (3) SI

Students gain a thorough understanding of options, futures, and other financial instruments. Skills are developed in basic pricing analysis, use of pricing models, and trading and hedging strategies. Students are first introduced to the basic techniques for pricing, hedging, and other analysis. Next, these techniques will be applied through an introduction of hedging strategies. The goal is to develop skills the students can apply in derivative markets. *Prerequisite: FIN-210 and FIN-350.*

FIN-420 International Financial Management (3) SII

Students are led through a study and examination of economic relationships and problems of international trade. Topics covered include currency risk and risk management techniques used in foreign exchange markets. Issues related to country and political risk also are addressed. *Prerequisite: FIN-210, ECON-110 and 111.*

French Courses

French courses are offered through the Modern Languages Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

FREN-101 French Language and Culture I (4) SI

Designed to study the language and culture of French speakers. Learning to use the language is the most important component of this study. Students develop rudimentary listening, speaking, reading, and writing skills in French and study cultural, geographical, and historical aspects of France and other large French-speaking populations. Emphasis also is given to developing awareness and understanding of cultural differences and non-biased attitudes toward cultures different from one's own. This course fulfills the modern language requirement of the general education core.

FREN-102 French Language and Culture II (4) SII

Designed to offer a sequence of experiences that enables students to develop listening, reading, speaking, and writing skills. The course also provides information about the people, places, attitudes, customs, and geography

of the French-speaking world. This course fulfills the modern language requirement of the College of Arts and Sciences core. *Prerequisite: FREN-101 or equivalent.*

FREN-201 French Language and Culture III (4) SI

Review, practice, and further development of skills acquired in FREN-102 or equivalent. Emphasis in this course is on reading and writing. This course fulfills the modern language requirement of the Bachelor of Arts degree. *Prerequisite: FREN-102 or equivalent.*

FREN-204 Intermediate French (4) SI

Emphasis on reading, culture, and grammar continues in this course, reinforced by practice in communicative competence. This course is intended to ease the transition from intermediate to advanced levels of French. *Prerequisite: FREN-201 or equivalent.*

FREN-310 French Conversation I (3) O

Designed to increase the student's ability for fluent, correct self-expression in conversation. Oral facility is improved through discussion and simulation of various real-life situations. *Prerequisite: FREN-201 or equivalent or consent of instructor.*

FREN-311 French Conversation II (3) O

Designed to increase further the student's ability for fluent and correct self-expression in conversation. Emphasis is on development of speed and accuracy of conversation in everyday life and some business situations. *Prerequisite: FREN-201 or equivalent or consent of instructor.*

FREN-315 Contemporary France I (3) O

Study of the economic, sociological, and political structures of modern France and of the concerns and problems facing its people as reflected in French newspapers and periodicals. *Prerequisite: FREN-201 or equivalent or consent of instructor.*

FREN-316 Contemporary France II (3) O

Continuation of the study of the society and civilization of modern France with emphasis on the development of oral/aural proficiency through class discussion. Audiovisual materials are used. *Prerequisite: FREN-201 or equivalent or consent of instructor.*

FREN-325, 326 French Language I-II (4–4) N

Advanced composition and conversation. Work is tailored to individual needs and may include instruction in business correspondence and office vocabulary. The fundamentals of grammar are reviewed either in first or second semester. *Prerequisite: FREN-201 or equivalent or consent of instructor.*

FREN-360 Contemporary French Drama (4) N

Consideration of the French theatre and playwrights since 1920 with reading of selected plays. Audiovisual materials are used. *Prerequisite: FREN-201 or equivalent or consent of instructor.*

FREN-370 French Novel, 1830–1930 (4) N

Sampling of important French novelists from Hugo and Balzac through Proust and Gide. *Prerequisite: FREN-201 or equivalent, or consent of instructor.*

FREN-410 French Culture from 1500 to the Revolution (2) N

Study of the civilization and historic events of the period with emphasis on various aspects such as art and music, politics, or social/economic changes. Students will work toward improving their oral/aural skills in French through presentations and class discussions. Audiovisual materials are used. *Prerequisite: FREN-201 or equivalent or consent of instructor.*

FREN-411 French Culture from the Napoleonic Empire to the Present (2)N

Study of the development of French democracy with emphasis on the concomitant social, artistic, and economic changes. Students work to improve oral/aural proficiency in French through presentations and class discussions in the language. Audiovisual materials are used. *Prerequisite: FREN-201 or equivalent or consent of instructor.*

FREN-440 Directed Readings in French (1–8) Y/D

Readings in topics selected by the student with approval of the instructor. *Prerequisites: Junior or senior standing and consent of the instructor.*

FREN-445 French Literature from 1500 to the Present (4) N

Overview of the greatest French authors not covered in special literature courses already in the curriculum. The course will begin with Rabelais and may include works by Racine, Dumas, Descartes, Voltaire, Gautier, Daudet, Collette, Camus, Sartre, or other authors from the appropriate periods. *Prerequisite: FREN-201 or equivalent or consent of the instructor.*

FREN-460 Molière (4) N

Reading and discussion of selected plays of the great comedic dramatist, whose universal qualities are still appreciated. *Prerequisite: FREN-201 or equivalent or consent of instructor.*

FREN-470 French Poetry, 1820–1920 (4) N

Reading and interpretation of great lyric poets of the Romantic, Parnassian, Symbolist, and Surrealist schools. *Prerequisite: FREN-201 or equivalent, or consent of instructor.*

FREN-480 Selected Topics in French Literature (2–3) N

Study of selected genres, periods, and/or authors in French literature. Students may enroll in this course any number of times as long as the topic is not a repetition of one for which credit already has been granted. *Prerequisite: FREN-201 or equivalent or consent of instructor.*

German Courses

German courses are offered through the Modern Languages Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

GERM-101 German Language and Culture I (4) SI

Designed to study the language and culture of German speakers. Learning to use the language is the most important component of this study. Students develop rudimentary listening, speaking, reading, and writing skills in German and study cultural, geographical, and historical aspects of Germany and of other large German-speaking populations. Emphasis also is given to developing awareness and understanding of cultural differences and non-biased attitudes toward cultures different from one's own. This course fulfills the modern language requirement of the general education core.

GERM-102 German Language and Culture II (4) SII

Designed to continue the sequence of experiences that enables students to acquire listening, reading, speaking, and writing skills. The course also provides information about the people, places, attitudes, customs, and geography of the German-speaking world. This course fulfills the modern language requirement of the College of Arts and Sciences core. *Prerequisite: GERM-101 or equivalent.*

GERM-201 German Language and Culture III (4) SI

Review, practice, and further development of the skills acquired in GERM-102 or equivalent. The emphasis in this course is on reading and writing. This course fulfills the modern language requirement of the Bachelor of Arts degree. *Prerequisite: GERM-102 or equivalent.*

GERM-204 Intermediate German (4) SI

Emphasis is on reading and writing skills. These skills will be reinforced by continuing practice in oral/aural skills and grammar. This course is intended to ease the transition from intermediate to advanced levels of German. *Prerequisite: GERM-201 or equivalent.*

GERM-301 Survey of German Literature (4) N

This course is a survey of German literature from the late 17th century to the present. Students will gain an appreciation of the development of literary forms and genres as evidenced in the works of the great German writers. This course is intended as a transition to more advanced literature courses. *Prerequisite: GERM-201 or equivalent, or consent of instructor.*

GERM-302 German Stylistics (2) N

This advanced German grammar and writing course seeks to help students refine their language skills. Emphasis will be placed on idiomatic usage in specific conversational settings and in written forms of communication. *Prerequisite: GERM-201 or equivalent, or consent of instructor.*

GERM-310 German Conversation I (2) N

Practice in German conversation on topics of daily life and basic business transactions. Students strive to attain fluency in speaking and correct sentence intonation and are required to work up and act out everyday communication situations. *Prerequisite: GERM-201 or equivalent or consent of instructor.*

GERM-311 German Conversation II (2) N

Continuation of German Conversation I, aimed at mastering more sophisticated patterns of speech in more complex situations. Students are expected to express themselves on more demanding topics. *Prerequisite: GERM-201 or equivalent, or consent of instructor.*

GERM-315 German Civilization (3) N

Study of forces and developments that formed German civilization and culture. Attention is given to cross-cultural influences and comparisons with American thought and experiences. Students are required to research some aspect of German civilization. *Prerequisite: GERM-201 or equivalent or consent of instructor.*

GERM-320 The German Novelle (3) N

Study of the form of the Novelle and reading of representative samples of Novellen from the 19th and 20th centuries. *Prerequisite: GERM-201 or equivalent, or consent of instructor.*

GERM-321 German Translation I (3) N

This course aims to help students acquire basic skills in the area of written translation. With German being a growing business and scientific language in the United States, Europe, Russia, and other parts of Asia, the course responds to the increasing need to prepare language graduates capable of aptly communicating in German in a variety of professional settings. In addition to obtaining basic written translation skills, this course also will help students to explore new career tracks in medical, technical, and scientific writing. *Prerequisite: GERM-201 or consent of instructor.*

GERM-345 German Writing and Correspondence (3) N

Designed to give students practice in writing simple idiomatic German prose and to teach the basic forms of correspondence. Grammar principles are reviewed as needed. *Prerequisite: GERM-201 or equivalent or consent of instructor.*

GERM-360 German Drama (3) N

Study of the development of German drama from Lessing to the present through reading of selected representative plays. *Prerequisite: GERM-201 or equivalent or consent of instructor.*

GERM-440 Directed Readings in German (1–8) Y/D

Readings in topics selected by the student with approval of the instructor. *Prerequisites: Junior or senior standing and consent of the instructor.*

GERM-460 Goethe (3) N

Study of Goethe and his works. *Prerequisite: GERM-201 or equivalent or consent of instructor.*

GERM-470 German Lyric Poetry (3) N

Survey of the development of poetry in Germany and reading and interpretation of great poems from Klopstock to the present. *Prerequisite: GERM-201 or equivalent or consent of instructor.*

GERM-480 Selected Topics in German Literature (2–3) N

Study of selected genres, periods, and/or authors in German literature. Students may enroll in this course any number of times as long as the topic is not a repetition of one for which credit already has been granted. *Prerequisite: GERM-201 or equivalent or consent of instructor.*

Gerontology Courses

GERO-301 Interdisciplinary Perspectives on Aging (3) SI

An introductory-level gerontology course. It will provide the student with an introduction and overview of the field of gerontology including terminology, theoretical perspectives, research and demography, public policy, ageism, history of the study of aging, cross-cultural study of aging, end-of-life issues, career exploration, and professional ethics. Course investigations will include readings from texts and articles, accessing Web sites, and exploring methods for transferring learning into application. Course assignments will include projects that will require students to interact with aging adults and aging professionals and projects that will require students to explore personal value systems and perceptions of aging.

GERO-305 Physical Dimensions of Aging (3) SI

Study of the effects of aging on body systems and influence of such changes on health and function. It will include opportunities for designing strategies that facilitate healthy aging. Students will be interacting individually with content and interacting with others about the content. The learning will occur through learner-initiated processes and the instructors will be the facilitators of the learning process. Learning experiences will be connected to the real world and are designed to facilitate reflections, critical thinking, and application of principles learned. *Prerequisite: GERO-301.*

GERO-310 Aging in Society and Community (3) SII

Examines aging from both macro and micro perspectives to explore how the aging individual is affected by social and cultural forces, and, in turn, how the aging population affects the greater society. Students will draw on sociological perspectives to increase understanding of applied and theoretical issues in aging, examine the social aspects of aging through roles and relationships, and explore aging as it is related to social institutions and the concept of community. Finally, we will consider patterns of diversity in the aging population as evidenced by race, ethnicity, socioeconomic status, and gender. *Prerequisite: GERO-301.*

GERO-320 Psychology of Aging (3) SII

This course examines psychological aging in terms of change processes. Psychological theories of aging will be covered as well as the content areas of cognition, personality, and mental health. Students will examine normal and pathological psychological development in these domains, and some of the factors that may influence variations in aging trajectories (i.e., patterns of change over time), including interventions. In addition, several issues in the psychology of aging will be addressed, such as suicide and recognizing the differences between dementia, delirium, and depression. *Prerequisite: GERO-301.*

Greek Courses

Greek courses are offered by the Philosophy and Religion Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

GRK-101 Ancient Greek I (3) O/D SI

Study of the fundamentals of the ancient Greek language helps the student acquire effective translating skills. Students utilize the Greek of the New Testament. Primary emphasis is given to learning the tenses, voices, and moods of regular verbs, and the declensions of nouns, pronouns, and adjectives. Secondary emphasis is given to translating biblical texts.

GRK-102 Ancient Greek II (3) O/SII

A study of irregular verbs and nouns completes the student's grammatical base. The course emphasizes translating selected biblical texts and some nonbiblical ones. *Prerequisite: GRK-101.*

GRK-105 Elementary Modern Greek I (3) D

An introductory course designed to prepare students to read, speak, and understand Modern Greek. Classes will focus on the study of grammar and vocabulary as well as on the reading of adapted passages. Classroom time will be spent on oral work and on elementary dialogues among the students and between the students and the instructor. These drills simulate everyday life situations. No previous exposure to the language is required.

GRK-106 Elementary Modern Greek II (3) D

A continuation of Elementary Modern Greek I, emphasizing the further development of skills in reading, speaking, and understanding Modern Greek. Reading selections are used from newspapers and other contemporary sources. Further classroom dialogues are written and presented among students and between students and the instructor. *Prerequisite: GRK-105 or permission of instructor.*

GRK-201 Ancient Greek III (3) O/SI

Emphasis is on translating and exegetical skills using biblical and some non-biblical texts. Students should acquire grammatical and syntactical skills as well as vocabulary proficiency. *Prerequisite: GRK-102.*

GRK-202 Ancient Greek IV (3) D

Study of more difficult biblical and non-biblical texts increases the student's translating and exegetical skills. *Prerequisite: GRK-201.*

GRK-205 Intermediate Modern Greek I (3) D

The aim of the course is to enable students to become independent users of the language who deal effectively and with a good degree of accuracy with familiar communication situations or situations of personal interest; to understand the main points of conversations, descriptions, etc.; and to connect phrases in a simple way. *Prerequisite: GRK-106 or permission of instructor.*

GRK-206 Intermediate Modern Greek II (3) D

The course is to enable students to become independent users of the language who understand extended speech; to interact fluently and spontaneously; to understand main ideas of abstract and concrete topics; to present clear and detailed accounts on a variety of topics. *Prerequisite: GRK-205 or permission of instructor.*

History Courses

History courses are offered by the History and Political Science Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

HIST-101/201 World History to 1700 (3) A

Survey of major themes in world history from ancient times to 1700. The course focuses on the emergence, evolution, and interaction of world civilizations and their religions, social systems, ideologies, technologies, and legacies to the modern world. *Enrollment in 101 sections restricted to freshmen.*

HIST-102/202 World History Since 1700 (3) A

Survey of the major themes in world history since 1700. Special attention is given to providing students with a basic framework of chronology and geography for understanding these themes, for appreciating the interaction among civilizations and cultures over time, and for acquiring a familiarity with the historical roots of contemporary global realities. *Enrollment in 102 sections restricted to freshmen.*

HIST-203 Modern Europe (3) D

Study of European history from the French Revolution to the present. The course focuses on major social, economic, and political developments; the evolution of modern Western ideologies; and the changing role of Europe within the modern world.

HIST-207 Brief History of the United States I (2) SI

Survey of selected topics in United States history through the Civil War period. Students may not receive credit for both HIST-207 and HIST-217. *This course does not fulfill the core history requirement. It does not count toward a history major or minor unless taken along with HIST-208 and HIST-209.*

HIST-208 Brief History of the United States II (2) SII

Survey of selected topics in United States history since the Civil War period. Students may not receive credit for both HIST-208 and HIST-218. *This course does not fulfill the core history requirement. It does not count toward a history major or minor unless taken along with HIST-207 and HIST-209.*

HIST-209 Readings in U.S. History (2) D

A reading course in United States history designed for students who have taken HIST-207 and HIST-208 but, owing to a change in major, need credit for HIST-217 and HIST-218. *Prerequisite: HIST-207 and HIST-208. This course does not fulfill the core history requirement. It does not count toward a history major or minor unless taken along with HIST-207 and HIST-208.*

HIST-217 United States History to 1865 (3) SI

Survey of United States history from the European exploration and colonization of America through the Civil War era with special attention on the formation of American social and political institutions.

HIST-218 United States History Since 1865 (3) SII

Survey of United States history from the late 19th century to the present with special attention on the progress and problems of the United States in the 20th century.

HIST-280 Cross-Cultural History Seminar (3) D

Examines the nature of history, how it affects our lives, and how we should approach its study. Selected issues and themes from the history of Africa, Latin America, the Middle East, or Asia are the focus of study and serve to illustrate what we have learned about how history works. *This is an Honors seminar.*

Courses numbered 300 or above are not open to freshmen.**HIST-301 Advanced Composition in History (3) SI**

Practice in the techniques of exposition to promote effective writing on historical topics. Class activities include intensive discussion of student papers. Model essays and other historical works are examined to study strategies of expository writing in history. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-331 History of Latin America (3) D

Study of the main themes in Latin American history that help to explain the region's current political, economic, and social conditions. Emphasis is placed on the historical relationship between Latin America and the United States. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-353 The African Experience (3) D

Introduction to African peoples and cultures and a study of major themes that link Africa with other world civilizations and developments. These include the slave trade, colonial domination, and problems experienced by modern African nations. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-382 Contemporary World Issues (3) D

Study of problems confronting the world today. On the basis of a wide range of informative and interpretive readings, students engage in historical analysis of a single issue selected by the department. Focus is on such topics as Islam and the West, armament and world peace, poverty, terrorism, revolutions in the developing world, and imperialism. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-393 International Travel Seminar (3) D

Travel seminar offering students an opportunity to combine the study of world history with the cross-cultural experience of living and traveling abroad. Student interests help to determine the design and location of the program. *This three-week course is offered either during Spring Term or during the summer. Prerequisite: Consent of instructor; ENGL-102.*

HIST-401 Colonial and Revolutionary America (3) D

A study of Colonial and Revolutionary America, 1607 to 1790. Emphasis is placed on the European background and colonial policy, the development of the different American colonies, the coming of the Revolution, the War for Independence, the Confederation Period, the Age of Federalism, and the impact of the Revolution in the Early Republic. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-402 Medieval Europe (3) D

This course focuses on the history of Europe from the fall of Rome through the Black Death. In addition to chronological coverage of the major political, economic, social, and cultural events of the period, readings in primary sources will allow students to gain more in-depth knowledge of both the subject matter and the historical methods associated with the study of the Middle Ages. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-403 Early Modern Europe (3) D

This course focuses on the history of Europe from the Renaissance through the Enlightenment. Lectures and a general text will provide the framework of chronology for the major political, economic, social, and cultural events of the period, and readings drawn from primary sources will give students an opportunity to explore the methodologies associated with the study of early modern European history. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-404 Early American Republic (3) D

Examination of the history of the United States from the Revolutionary Era to the antebellum period. Topics include the Jeffersonian Era, the Age of Jackson, Indian Removal, Slavery, the Market Revolution, the Second Great Awakening, Romanticism, Sectionalism, Women's Rights, and other social and cultural developments. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-405 Civil War and Reconstruction (3) D

Study of the American Civil War era through the end of Reconstruction. Emphasis is placed on the coming of the war, military and social aspects of the conflict, politics of the era, constitutional questions raised, and changes in American society and culture. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-406 The United States, 1877–1917 (3) D

This class explores the critical transition of the United States as it moved from a divisive, local-based culture to a more unified, national outlook. Exploring the major trends of both the Gilded Age and the Progressive Era, this course will examine the modernization of American social, economic, cultural, and political institu-

tions, with a particular focus on what that meant for Americans of different backgrounds. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-407 The United States, 1917–1945 (3) D

This class examines the most eventful period in the 20th century. Americans between 1917 and 1945 experienced three devastating events that touched, in some way, the entire population. World War I, the Great Depression, and World War II are the major events with which any history of the period must begin. Using those watersheds as points of entry, the course proceeds within a chronological framework to explore critical themes in American political, social, economic, and intellectual life. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-410 History of African Americans to 1910 (3) D

This course examines the rich and diverse history of African Americans in the United States, from the introduction of slavery to the American colonies until 1910. Via an examination of African American political, economic, and cultural history, this course provides students with the analytic framework for understanding the persistent issue of race in American life. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-415 History of the Civil Rights Movement (3) D

This class takes a broad perspective on the civil rights movement. By examining the movement's roots in the Second World War and the legacy of the movement into the decades following the 1960s, this course encourages students to think about the ways in which the civil rights movement served as a watershed in American cultural and political life. Students will be asked fundamental questions about the movement, including when it began, who belonged, and how historians have tried to write about it. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-416 The Third Reich: Rise, Fall, and Aftermath (3) D

Study of German history from 1918 to the present. Special attention is given to the rise of Hitler, the domestic and international politics of the Nazi period (1933–1945), and the legacy of the Third Reich in the years since World War II. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-419 Legacies of Modern Colonialism (3) D

Examination of the impact of modern European colonial domination on the peoples and cultures of Africa and Asia and its reflection in contemporary African and Asian attitudes, politics, and economics. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-420 Indiana and the Midwest (3) D

Study of the history of Indiana and the Midwest from settlement to the present era. Emphasis is placed on the political, economic, social, and cultural development of the state and region. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-422 History of the British Isles to 1714 (3) D

Survey of the history of Britain from the ancient world to 1714. Topics will include the development of medieval monarchies, legal, religious, and constitutional developments, and society and culture, focusing on issues of identity and nationality. Throughout the course the interaction between the “Four Kingdoms” (England, Ireland, Scotland, and Wales) will be stressed. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-423 Modern Britain (3) D

This course will study the evolution of Modern Britain and the role of Britain in modern history. Major themes will include the development of parliamentary government, the zenith and decline of the British Empire, and Britain's evolving role in Europe. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-427 Modern Russia (3) D

History of Russia from tsarist times to the present. Topics covered include the problem of reform in Imperial Russia; the collapse of the old regime; Lenin, Stalin, and the establishment of the communist dictatorship; World War II and the Cold War; the post-Stalin era; and social, economic, and political issues in the former USSR today. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-438 Modern South Asia (3) D

This course surveys South Asian history from the decline of the Mughal Empire in 1707 to the present. It covers political and social events and processes over the time period of the dissolution of the Mughal Empire, its replacement by the East India Company and British government, the period of nationalist struggle for freedom, and the emergence of the modern states of India and Pakistan. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-442 Modern East Asia (3) D

Emphasis is on the history of China and Japan from 1840 to the present. Chinese topics include the Opium War, rebellion and revolution, Mao Zedong, Communism, and the People's Republic of China. Japanese topics include the Meiji Restoration, the rise of militarism, World War II, and the postwar economic miracle. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-463 History of the Middle East (3) D

Survey of the history of the Middle East from the seventh century. Special attention will be given to events and themes that facilitate understanding of contemporary problems. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-464 United States Diplomatic History to 1945 (3) D

Investigation of major episodes in American foreign relations and a critical examination of the evolution of the nation's diplomatic tradition from its founding through World War II. *This course is not open to freshmen.*

HIST-465 The United States and the World Since 1945 (3) D

Study of world affairs and especially the preeminent international role of the United States since World War II. Topics covered include the Cold War, the Korean War, nuclear strategy, disarmament, the Vietnam War, the Middle East, and the global economy. *This course is not open to freshmen. Prerequisite: ENGL-102.*

HIST-475 Seminar in Historiography (4) SI

Detailed analysis of the historical method and the problems of writing history. Students have the opportunity to conduct research and write history. *Prerequisite: Minimum of 18 hours of HIST courses and ENGL-102. This course is not open to freshmen.*

HIST-480/481/482/483/484 Special Topics in History (1-4) D

Comprehensive examination of an historical topic not covered thoroughly in other advanced history courses. Topics vary, and students may repeat the course for credit if the topic is different. *This course is not open to freshmen. Prerequisite: ENGL-102.*

Honors Courses

Honors courses are offered through the Honors College. Information about the Honors College can be found in the section entitled *Academic Programs*.

These courses may be taken at any point in a student's career, with the exception of the Honors section of HIST-102, which is exclusively for entering freshmen, and of HON-400 having to be taken before HON-490.

In addition to the courses listed below, Honors College students with at least 30 earned credit hours with a GPA of 3.3 or higher may elect to up to 6 credit hours of coursework as "Honors Option." Honors Option affords students the opportunity to develop original work that explores innovative connections, the synthesis of ideas, in-depth analysis, or creative expression beyond that offered in a standard course. Honors Option course proposals are due November 1 and April 1 and must be approved by the Honors College Committee prior to the start of the semester in which the Honors Option course is to be taken.

BIOL-155 Honors: General Biology I/Diversity of Life (4) SI

A broad survey of life and its history, diversity, and classification. Students will become acquainted with the major groups of prokaryotes, protists, animals, plants, and fungi. Three lectures and one two-hour laboratory period per week. *Prerequisite: MATH-105 or its equivalent.*

ENGL-102 Honors English: Western World Literature and Composition (3) SII

Honors English is an introduction to themes and genres of Western world literature. Students read and discuss classics from ancient Greeks to Shakespeare and the modern period. Students write short papers and a research paper, with emphasis on thesis, organization, documentation, style, and grammatical correctness. *Prerequisite: ENGL-101 with a grade of C or above.*

HIST-102 Honors: World History Since 1700 (3) SI

Students will focus their attention on 10 important issues selected from world history since 1500. For each of these issues, background readings and discussion will be followed by student activities designed to demonstrate understanding and critical analysis. *Note: This class is open only to entering freshmen.*

KINS-104 Honors Wellness and Fitness for a Lifetime (2) SI

A highly experiential introduction to the eight dimensions of wellness: physical, mental, social, spiritual, intellectual, environmental, occupational, and financial. Students will determine their individual overall wellness level and engage in interdisciplinary activities, field trips, and projects to examine social, environmental, and other structural influences on wellness. *Lab fee: \$20.*

PHIL-130 Honors Philosophy: Leading Lives that Matter (3) SI

A selective study of major philosophical ideas with an emphasis on the meaning or significance of our lives. In examining ways in which philosophers, authors of fiction, theologians, political theorists, and other important persons approach and provide their understandings of the significance of human life, students will identify key features in the significant life and be encouraged to pose pointed questions related to ethics and the standards of conduct and responsibility they entail.

PSCI-101 Honors: American National Government (3) SI

This course challenges students to think critically and creatively about the federal government. Students study the core concepts of American democratic theory—judicial review, separation of powers, and balances and

federalism. The course also explores the role of political parties, elections, and the media in American politics and examines the enduring significance of the civil rights movement and of the women's movement.

REL-130 Honors: Readings in Christianity (3) SI

The Honors Religion course provides academically motivated students with a set of primary and secondary readings that allow them to engage texts and issues from the Christian tradition in a manner that satisfies the University's Judaic-Christian requirement. The format of the course will be primarily discussion. The Honors Religion course combines primary source material (texts produced during the particular historical period under consideration) and the secondary sources (books, articles, etc. by scholars of that historical period). Within this format, different historical periods and different sets of primary source material can be offered, depending on the expertise of the individual instructor.

SOCS-200 Honors: Exploring Human Complexity (3) Y

An in-depth interdisciplinary study of the many components that influence the development of individuals within both their specific groups and the context of Western culture. Various elements in this multifactorial and reciprocal model of human functioning will be explored, with focus on the interaction between them. Each element influences both the individual and the impact of the other elements. Components of the model include topics in biology, anthropology, sociology, psychology, and family theory.

HON-201 Artistic Works, Value, and Criticism (3) O/SII

This course introduces students to fundamental philosophical problems in the fine arts and humanities (art, music, literature, theatre) with special attention given to the nature of artworks and character of aesthetic experience. The course also takes a historical approach to examine how our current understanding of the nature of artistry and artistic works developed and how theoretical work in the last fifty years currently influences our thinking on these matters.

HON-202 Nature and History: How the Natural World Influences the Course of Civilization (3) D

Years of formal education have created artificial barriers in students' thinking between the several disciplines. These barriers are particularly apparent between the sciences and the histories of human societies. This interdisciplinary course for students in the Honors College is designed to encourage students to think beyond those barriers and explore the relationships between nature, culture, and events in world history from different perspectives. Its secondary purpose is to compare and contrast two ways to approach answering questions—the scientific method and the historical method.

HON-301 The Arts: Connections and Relevance (3) O/SII

An interdisciplinary experience in the arts including investigation of interrelationships between a variety of art forms in the use of basic artistic elements, creation of styles, expression of emotion, and communication of ideas. Discussion of aesthetics and meaning in art, connections and relevance between arts and the broader spectrum of human endeavor past and present. Classroom experiences include presentations and interactions with practicing artists in music, visual arts, and theater. Field trips include museum, concert, theater, and other live arts experiences.

HON-340 Washington Semester Program Seminar (4-8) A

Highly interactive and in-depth examination of key issues related to one of the following focal areas of study: American Politics, Contemporary Islam, Economic Policy, Foreign Policy, International Business and Trade,

International Environment and Development, International Law and Organizations, Print and Broadcast Journalism, Justice, Peace and Conflict Resolution, Public Law, or Transforming Communities. Seminars involve simulations, case study, debate, lectures, and class discussion. Integral to the seminar experience is meetings with leaders and experts in the field on at least a weekly basis. Students are evaluated on the basis of participation, exams, written assignments, group discussions, and group project. This class is held in Washington, D.C. in conjunction with American University. Some areas of study also require international travel. *Prerequisite: Permission of chair of Honors College required.*

HON-342 Washington Semester Program Internship (4) A

Practical experience in appropriate agency related to focus area of study, involving working two days a week (about 16 to 20 hours a week) combined with weekly, half-day class sessions to supplement and process field-based learning. Students participate in an internship placement fair and are required to interview at least three internship sites. This class is held in Washington, D.C. in conjunction with American University. Faculty at American University facilitate student selection and placement, as well as supervise the internship. *Prerequisite: Permission of chair of Honors College required.*

HON-343 Washington Semester Program Research (4) A

A highly individualized course designed to develop basic research skills and engage in an in-depth study of a topic. This class is held in Washington, D.C. in conjunction with American University. A member of the American University faculty is assigned to the student to facilitate research. *Prerequisite: Permission of chair of Honors College required.*

HON-400/410 Honors Proseminar (0.5) A

Preparation for all phases of the capstone Honors Project and introduction to ethical considerations related to conducting research with human participants, funding project ideas, and selecting a faculty adviser to supervise the final Honors Project. Emphasis on developing a literature review, project methodology, the role of collaborative planning, and revision/resubmission processes. Students work together in a project team to troubleshoot, engage in peer review, and help one another produce successful project proposals. Additional topics and discussions are tailored to the development of each person's project. The class is graded on a credit/no credit basis based on submission of a full project proposal for review by the Honors College Committee. *Prerequisite: Permission of chair of Honors College required.*

HON-480 Honors Topical Seminar (1–3) D

Interdisciplinary topical study designed to challenge and broaden the intellectual horizons of Honors College students. Topics and format vary as determined by the special interests and needs of students and the expertise of faculty. May be repeated one time as topics change.

HON-490 Honors Project (3–6) A

A capstone experience of the Honors College. The student may register for HON-490 only after the Honors College Faculty Committee has approved the honors project proposal. *Prerequisite: HON-400 or HON-410 and permission of chair of Honors College.*

Human Resource Management Courses

Human resource management courses are offered through the School of Business. Information about the school and its majors and minors can be found in the section entitled Academic Units.

HRM-381 Human Resource Management (3) A

Study of the organization, objectives, functions, and problems in human resource management. The management of EEO, affirmative action plans, unions, compensation and benefits, OSHA and EPA compliance, training and development of employees, and the importance of human resources in organizational effectiveness are primary topics.

HRM-384 Labor Law (2) SII

Review of labor statutes from the New Deal to the present. The National Labor Relations Act, Fair Labor Standards Act, regulations of OSHA and EEO, Americans with Disabilities Act, and similar laws are studied. *Prerequisite: HRM-381. (Management majors with HRM concentrations may substitute additional legal readings in lieu of the prerequisite.)*

HRM-385 Employee Benefits and Compensation (3) SII

Survey of the various employee benefits and administration of benefit plans, with special attention to IRS and DOL requirements. *Prerequisite: HRM-381. (Management majors with HRM concentrations may substitute additional legal readings in lieu of the prerequisite.)*

HRM-481 Organization Development (3) SI

This course introduces the field of Organization Development, the theory and practice of bringing planned change to organizations. OD focuses on ways companies and individuals diagnose and solve problems that limit organizational effectiveness. The course is theoretical and applied in terms of organizations, issues in OD, and OD tools and techniques. *Prerequisite: HRM-381.*

HRM-482 Collective Bargaining and Management (3) SI

Introduction to study, practice, and issues of collective bargaining. Topics include formation of unions, contract issues and formulation, violation of contract, and remedies; international unions; legal aspects of labor laws, employee rights, and employer rights; social environment; and ethical issues. The second half of the semester concentrates on management issues; departmental relationships; structure; unionized versus nonunionized environments; and accountability. *Prerequisites: MGT-281 or BADM-234, and junior or senior standing (HRM-384 is recommended).*

HRM-483 Training and Development (3) SII

This course is an overview and introduction to the discipline, skills, and knowledge base associated with training and development as done in organizations. The major focal points are to introduce students to what is actually done in organizations and prepare them for introductory positions in corporate training departments. *Prerequisite: HRM-381.*

Interdisciplinary Courses

The following interdisciplinary courses are offered through the College of Arts and Sciences. Information about the college can be found in the section entitled Academic Units.

INTD-101 New Student Experience (1) A

New Student Experience is designed to help new students at UIndy in their first semester of enrollment to develop skills and relationships that will serve them well as they pursue their degree and career goals. The course consists of a series of personal, academic, and campus success sessions designed to help new students make a successful transition to campus. The class uses a combination of in- and out-of-class programs to cover topics relating to academics, student involvement, relationships, career development, goals, diversity, wellness, campus safety, values, etc.

INTD-201/202 Lecture/Performance Series (.5) A

The Lecture/Performance Series is an opportunity for students to attend programs of intellectual and/or cultural significance outside of the normal classroom setting. The format of the Lecture/Performance Series is designed to give students some choice in the events they attend and to provide for flexibility in scheduling. Varied events are scheduled throughout the semester. These events vary in length from one to three hours. To earn .5 hour of academic credit, a student must attend a total of 10 events. Requirement details are available on the UIndy intranet at my.uindy.edu.

International Business Courses

The international business course is offered through the School of Business. Information about the school and its majors and minors can be found in the section entitled Academic Units.

IBUS-201 International Business (3) A

Introduction to the field of international business: national economic and cultural differences; international trade policies and institutions; foreign direct investment; regional economic integration; global competition; and current international business trends and developments.

IBUS-410 Global Leadership Seminar (3) SII

The increasingly global economy, as well as the more diverse domestic environment, creates a need for individuals to increase international knowledge and skills. Consumer marketing, human resources, multinational manufacturing, recruiting, team coordination, negotiations, and conflict resolution are examples of business areas directly affected by domestic and international diversity. This course is focused on these issues and is designed to smooth the way for students who will face complex business issues in the global arena.

International Relations Courses

International relations courses are offered through the History and Political Science Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

IREL-101 Introduction to International Relations (3) A

An introductory survey of the issues and problems in relations among states. The principal objective is to introduce students to the discipline of international relations and to encourage a critical appreciation of contemporary international issues. Topics covered include international organizations and

their role, international law and diplomacy, global and ethnic conflicts, and the functioning of the global economy.

IREL-204 World Geography (3) A

Survey of world regions examining the environmental, cultural, historical, and economic processes that make each region unique, as well as its connections and commonalities with other world regions. The course considers cultural landscapes, human relationships with the natural environment, spatial patterns of human interaction including diffusion and settlement, and the uniqueness of place around the world.

Courses numbered 300 or above are not open to freshmen.

IREL-300 Model United Nations (1) A

Study of contemporary international relations through simulation of the United Nations Security Council and other international organizations. Students research and prepare position papers and resolutions on issues from the perspective of various nations and participate in intercollegiate Model UN and European Union meetings. *This course is not open to freshmen. Prerequisites: IREL-101 and ENGL-102.*

IREL-302 Model European Union (1) SII

Study of contemporary European relations through a simulated exercise of the EU councils. Students participate as members of a country's delegation and research their own and other states' positions on EU affairs, culminating in an intercollegiate summit where they interact with other teams. *This course is not open to freshmen. Prerequisites: IREL-101 and ENGL-102.*

IREL-309 Economic Geography and Globalization (4) SI

This course is an introduction to basic principles and different approaches to economic geography and globalization, including an historical perspective on contemporary issues of development, trade, and migration. *This course is not open to freshmen. Prerequisite: IREL-204 and ENGL-102.*

IREL-335 Comparative Politics (4) D

The course introduces students to types of government as well as to the methodology of comparison. *This course is not open to freshmen. Prerequisite: ENGL-102 and IREL-101 or PSCI-101.*

IREL-336 Political Development (4) D

This course will examine the nature of political development in different states and analyze why different trajectories have been and are being chosen. It introduces the notion of change through an examination of the developmental paths taken by developed and developing states and their respective problems. The course combines theory, history, and geography in its study of political development. Therefore, it will familiarize students with contemporary problems within the developing world, as well as fulfill the objective of introducing students to one of the three subfields of comparative politics. *This course is not open to freshmen. Prerequisite: IREL-101 and ENGL-102.*

IREL-343 Foreign Policy Analysis (4) D

This course examines the leading theoretical approaches to the study of foreign policy. It seeks to provide students with the ability to critically evaluate theoretical literature on foreign policy. Theories representing all the major approaches including decision-making, leadership, public opinion, and psychology are explored. Topics covered include examination of Realist vs. Liberal paradigms, models of decision-making, and the

role of culture in the making of foreign policy. *This course is not open to freshmen. Prerequisite: IREL-101 and ENGL-102.*

IREL-345 International Relations Theory (4) SI

Survey of major theoretical schools and important concepts in the study of international relations. Areas covered include Realism and its variants, Neo-Liberal and Regime theories, and cognitive and perceptual decision-making models. Attention also is given to appropriate methods and research strategies in the study of international relations. *This course is not open to freshmen. Prerequisite: IREL-101 and ENGL-102.*

IREL-346 U.S. Foreign Policy: Decision-Making and Process (4) D

Study of the processes of making and implementing foreign policy decisions in the United States federal government. Major topic areas include a survey of relevant federal agencies and branches of government, their inputs to the foreign policy decision process and their interactions; and theories of decision-making, including rational choice, bureaucratic and political models, and individual psychological explanations of foreign policy choice. Students should acquire a working knowledge of the mechanics of the U.S. federal government in the realm of foreign policy. *This course is not open to freshmen. Prerequisite: IREL-101 and ENGL-102.*

IREL-347 International Conflict and Conflict Resolution (4) D

A study of causes, dynamics, and resolution of international conflict. Topics covered include theories of the causes of war at various levels of analysis; decision and social/psychological models of conflict dynamics; the role of military force in international conflict; theories of escalation and de-escalation; mediation and conflict resolution strategies; and problems of peace maintenance. Students are expected to research and analyze a recent international conflict. *This course is not open to freshmen. Prerequisite: IREL-101 and ENGL-102.*

IREL-348 International Organizations and Interdependence (4) D

This course is designed to examine the efforts of the international community in instituting global governance and rules in varying areas of states' common interests. Apart from theoretical debates and approaches within the subfield, the course will highlight significant international organizations such as the UN and the Bretton Woods system and international regimes in the areas of human rights, nuclear nonproliferation, trade, and the environment. *This course is not open to freshmen. Prerequisite: IREL-101 and ENGL-102.*

IREL-354 Terrorism: Past, Present, and Future (4) D

Examines the origins of terrorism and how the motives and methods of modern terrorists reflect both continuities and differences with those of the past. Topics include the psychological, socioeconomic, political, and religious causes of terrorist violence, as well as the strengths and weaknesses of various counterterrorism strategies. *This course is not open to freshmen. Prerequisite: IREL-101 and ENGL-102.*

IREL-393 International Travel Seminar (3) D

The international travel seminar offers students an opportunity to combine the study of international politics with the cross-cultural experience of living and traveling abroad. Student interests help to determine the design and location of the program. *This three-week course is offered either during Spring Term or during the summer. Prerequisite: ENGL-102 and consent of instructor.*

IREL-450 Internship in International Relations (1–15) D

Work experience in international relations (for example, with government offices, public agencies concerned with foreign affairs, lobbying organizations, or nongovernmental interest groups and agencies). Students are supervised on a day-to-day basis by the office staff and report to the instructor on a regular basis. A full-time

internship of at least four weeks may be arranged during Semester I or II or in the summer. Up to eight hours of credit may be applied toward a major or minor; additional hours will be credited as elective. *This course is not open to freshmen. Prerequisite: IREL-101 and ENGL-102.*

IREL-480 Special Topics in International Relations (1–4) D

Comprehensive examination of an international relations topic not covered in depth in another advanced international relations course. Topics vary, and students may repeat the course for credit if the topic is different. *This course is not open to freshmen. Prerequisite: ENGL-102.*

Kinesiology Courses

Kinesiology courses are offered by the Kinesiology Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

KINS-100 Methods of Teaching/Coaching Volleyball (2) SI

Study of the rules, techniques, fundamentals, organization, and teaching/coaching methods of volleyball. This course will include evaluations of a collegiate and high school match. Working at least one match will be required for practical experience.

KINS-101 Wellness/Fitness for a Lifetime (1) A

This one-hour course includes four dimensions: (1) physical fitness testing, recommended quantity of exercise, target heart rate, strength training, nutrition, eating disorders, and alcohol, drugs, and tobacco; (2) social management of stress, sexually transmitted diseases, and facts about HIV; (3) spiritual and emotional wellness and spirituality as well as positive self-esteem; and (4) health risk appraisal and cholesterol and blood pressure checks. *Lab fee: \$20.*

KINS-102 Advanced Wellness and Fitness for a Lifetime (1) A

The purpose of this course is to provide a reflection and an expansion to the eight dimensions of wellness (physical, mental, social, spiritual, intellectual, environmental, occupational, and financial) addressed in KINS-101 and offers experiential and interdisciplinary activities, assignments, and projects to the advanced wellness student. As it is an advanced wellness course, students will be expected to apply critical thinking to their personal wellness dimensions through various authentic assignments. The concept of balance is key to everyday living, function, and outlook. Balance is attained through high levels of understanding and being active in each dimension of wellness. *This course is open to Healthy Diploma™ students only. Prerequisite: KINS-101.*

KINS-103 Aquatics (1) SI

This course covers the basic aquatic skills for personal survival in the water. Topics/skills covered include treading water, basic strokes of the front crawl and back crawl, and the survival strokes of the elementary backstroke and sidestroke. Student must either test out of the course (as determined by the instructor) or satisfactorily complete this course prior to taking the required KINS-310 Water Safety Instructor.

KINS-104 Honors Wellness/Fitness for a Lifetime (2) A

The purpose of this course is to introduce the student to the eight dimensions of wellness and to assist the student in determining his or her own overall “wellness level.” This course is approached with a multi-dimensional view of wellness inclusive of all eight components—physical, mental, social, spiritual, intellectual, environmental, occupational, and financial—and offers experiential and interdisciplinary activities, assignments, and projects to the student. The concept of balance is key to our everyday living, our everyday

function, and our everyday outlook, and balance is attained through high levels of understanding and being active in each dimension of wellness. As it is an advanced wellness course, students will be expected to apply critical thinking to their personal wellness dimensions through various authentic assignments. *This course is open to honors students only. Lab fee: \$20.*

KINS-105 Methods of Teaching Dance (1.5) SI

Study of the fundamentals of movement and rhythm necessary to all types of rhythmic activities, with attention given to the methods and materials involved in teaching these fundamentals.

KINS-110 Methods of Teaching/Coaching Basketball (2) SI

Study of the rules, techniques, fundamentals, organization, and teaching and coaching methods of basketball. This course will include the analysis of coaching systems of different leading basketball coaches as well as teaching methodology for physical education.

KINS-112 Social Dance (1) A

This course is designed to teach the fundamentals of various forms of social dance. Students will develop their technique through increased complexity in class combinations, musical phrasing, and choreography. Group discussions center on dance vocabulary, dance history, current events, and choreography. Students will develop their skills in social dance through laboratory experience. Through the course, students will gain knowledge and skills needed to develop lifelong patterns of cardiovascular physical activity through dance. Dances may include merengue, social foxtrot, salsa, tango, mambo, Lindy, and jitterbug. *Prerequisite: KINS-101 or KINS-104 or equivalent. Open to Healthy Diploma™ students only.*

KINS-113 Group Cardio Fitness (1) A

This course will provide students with a background on the relationships between physical activity, physical fitness, and various health-related outcomes. Students will complete assessments of their health-related fitness and plan a personalized program to track their levels of physical activity. Through the course, students will gain knowledge and skills needed to develop lifelong patterns of cardiovascular physical activity. Activities may include cardio kickboxing, aerobics, and step aerobics. *Prerequisites: KINS-101 or KINS-104 or equivalent. Open to Healthy Diploma™ students only.*

KINS-114 Cardio Hip Hop (1) A

This course is designed to teach the fundamentals of various forms of hip hop dance for cardiovascular benefits. Students will develop their base skills and technique through increased complexity in class combinations, musical phrasing, and choreography. Group discussions center on dance vocabulary, dance history, current events, and choreography. Students will develop their skills in cardio hip hop through laboratory experience. Through the course, students will gain knowledge and skills needed to develop lifelong patterns of cardiovascular physical activity through dance. Students will begin to master these synchronized skills in an upbeat and fun environment while learning that movement and dance is an energized way to stay fit and active. *Prerequisites: KINS-101 or KINS-104 or equivalent. Open to Healthy Diploma™ students only.*

KINS-115 Yoga (1) A

This course is designed to improve muscular strength, endurance, flexibility, posture, balance, and relaxation techniques. Students will be provided with a beginner's working knowledge of yoga positions, knowledge of the benefits associated with yoga, and knowledge of skills needed to pursue independent training as part of their lifetime wellness program. *Prerequisites: KINS-101 or KINS-104 or equivalent. Open to Healthy Diploma™ students only.*

KINS-120 Methods of Teaching/Coaching Football (2) SI

Study of the rules, techniques, fundamentals, organization, and teaching/coaching methods of football. This course includes terminology and number systems used as a means of communication between coach and player.

KINS-130 Methods of Teaching/Coaching Track and Field (2) SII

Study of the rules, techniques, fundamentals, organization, and teaching/coaching methods of cross country and track and field. Students will be required to master, at a novice level, several track and field events. Working at least one track meet will be required for practical experience.

KINS-140 Methods of Teaching/Coaching Baseball (2) SII

Study of the rules, techniques, fundamentals, organization, and teaching/coaching methods of baseball. Techniques for teaching baseball in physical education also will be covered.

KINS-150 Methods of Teaching/Coaching Softball (2) SII

This course is designed to prepare students for teaching and/or coaching softball. Study of the rules, techniques, fundamentals, organization, teaching techniques, and statistical methods will be included. Instructional cues and sequencing of fundamental skills will be addressed. The student will learn the important aspects of both slow- and fast-pitch softball.

KINS-160 Methods of Teaching/Coaching Soccer (2) O/SI

Study of the rules, techniques, fundamentals, organization, and teaching/coaching methods of soccer.

KINS-170 Methods of Teaching/Coaching Competitive Swimming (2) O/SI

Study of the rules, techniques, fundamentals, organization, and teaching/coaching methods of competitive swimming.

KINS-180 Teaching Individual and Dual Activities (2) SII

Course focuses on skill development, teaching methodology, and curricular models for selected individual and dual games for K–12 students (e.g., tennis, badminton, golf, tennis, and pickleball) through participation and guided reflection. Analysis of skills, progressions, error analysis and correction, teaching techniques, unit planning, skill assessment, evaluation, and teaching experiences also will be addressed.

KINS-185 Teaching of Team Activities (2) SI

Course focuses on skill development, teaching methodology, and curricular models for selected team field, court, and invasion games for K–12 students (e.g., soccer, basketball, volleyball, team handball, and football) through participation and guided reflection. Analysis of skills, progressions, error analysis and correction, teaching techniques, unit planning, skill assessment, evaluation, and teaching experiences will be addressed.

KINS-190 Philosophies and Foundation of Kinesiology and Health (2) A

Course concerned with the comprehension and interpretation of the principles and philosophies of modern kinesiology-related programs. Contributions of historical programs related to development of current trends in program structure will be discussed. The foundations of sport, physical education, and health through civilizations and cultures will be a primary focus. Students will receive orientation to the majors of exercise science, sport management, health and physical education, and community health education. Various physical activity curricula also will be explored.

KINS-195 History and Culture of Sport (3) SII

The student will be able to recognize that sport is a microcosm of society and is influenced by cultural traditions, social values, and psychosocial experiences. The student also will be able to understand that sport managers are immersed in the sociocultural milieu, with sport as the focus.

KINS-200 Lifeguarding/CPR-PR (2) SII

Course supplying the hours and skills necessary to fulfill lifeguarding requirements for the American Red Cross Advanced Lifeguarding Certification. It includes personal water safety, lifesaving/lifeguarding skills, CPR for the Professional Rescuer, and AED (Automated External Defibrillator). *Prerequisites: Swimming 500 yards, treading in deep water for two minutes, and surface diving to eight feet to retrieve a 10-lb. object. Lab fee \$10.*

KINS-201 Governance and Ethics in Sport (3) SI

Sport activities are governed by various agencies. The student will become familiar with these agencies, their authority, organizational structure and functions. Many sport activities occur in settings in which a person will have to choose a course of action based on ethical principles. Students will recognize and identify moral issues related to sport in its intrinsic and extrinsic dimensions and develop a personal philosophy regarding social responsibility in the sport management setting.

KINS-202 Sport Finance and Economics (3) SII

The student will understand why finance is a critical component of all sports related industries and become familiar with financial control and its methods and principles. Additionally, the student will understand that sport is an industry in the national economy that is shaped by external economic influences and contributes to the shaping of the national economy. The student also will gain an understanding of economic principles.

KINS-210 Introduction to the Business of Sports (3) SII

This course is designed to provide students with an overview of the basic organizational structure of the sport, fitness, and leisure industries. This course is intended to provide the foundational knowledge necessary for students pursuing careers in sport management, sport marketing, sport communication, or other careers within the sport industry.

KINS-220 Techniques and Methods of Conducting Physical Education (3) SII

Laboratory experiences providing opportunities for students to develop physical education teaching strategies, as well as classroom and laboratory experiences providing opportunities for the student to develop instructional strategies for leading and developing physical activity. Teaching methods and learning environments are analyzed; organizational and administrative techniques in sport and physical education areas also are discussed. This course prepares the student to teach physical skills effectively and lead learners through an effective physical activity program. *Prerequisites: EDUC-220, KINS-180, KINS-185.*

KINS-230 Officiations (1) SI

Course designed to equip the prospective teacher/coach with the skills necessary to maintain class and/or game control. Emphasis is on officiating techniques in baseball, softball, volleyball, track and field, basketball, wrestling, and football. Students have practical experiences in implementing various officiating procedures. An opportunity to acquire an IHSAA officiating license is offered. *Lab fee paid during class.*

KINS-235 Motor Learning (3) SII

This course is designed to provide the undergraduate student with an introduction to motor skill learning, performance, and control. A scientific approach will be used to identify and critically examine the psychological and neurophysiological factors that facilitate and/or inhibit the acquisition, refinement, and retention of motor skills.

KINS-240 Recreational Principles and Games (2) SI

Study of the purpose of recreational activity. Knowledge of recreational group activities and games for all ages, as well as exploration of methods used to develop desirable behavioral traits through their use.

KINS-245 Principles and Practices of Exercise Science (3) A

This course is an overview of the fundamental concepts concerning the interaction of biological and mechanical aspects of human movement as well as the human physiology parameters related to physical exercise and work. *Prerequisite: BIOL-103.*

KINS-249 Basic Sport and Community Nutrition (2) SI

The course focuses on nutrition for health. It will help prepare students for eating healthily throughout the lifespan. Students will exit the course being able to (1) describe where the scientific literature pertaining to nutrition comes from, what it is, and how it can aid in discerning fact from fallacy; (2) describe the basics of digestion; (3) describe what carbohydrates, fats, proteins, vitamins, minerals, and fluids are and what foods/sources they come from; (4) describe how each of the above nutrients affects sports performance; (5) describe how diet can be used to aid in body weight manipulation; and (6) describe the need and function of the above-listed nutrients in health and disease.

KINS-250 First Aid and CPR-PR (1) A

Class designed to teach emergency response procedures. Topics include rescue breathing; cardiopulmonary resuscitation; airway obstruction emergencies that include adult, child, and infant CPR; rescue breathing; and principles of responding to emergencies. Student certified by American Red Cross upon satisfactory completion of course requirements. *Lab fee \$10.*

KINS-251 Advanced Sports Nutrition (2) SII

The course focuses on nutrition for sport and its application in physical conditioning to the competitive athlete and various special populations. It will help prepare the future physical educator, coach, athletic trainer, or other sports medicine personnel to better advise sport participants at all levels on sound nutritional practices. *Prerequisites: KINS 249, BIOL 103 and 104, CHEM 150 or ATRG 310.*

KINS-260 Introduction to Community Health in Diverse Communities (3) SI

This course is intended to serve as an undergraduate-level introduction to community health practice, including the latest trends and statistics in community health, the organization of the public health system, health advocacy, and delivery of community health services. Core topics will include epidemiology, community organization, program planning, minority health, health care, mental health, environmental health, drugs, safety, and occupational health. Emphasis will be on developing the basic knowledge and skills necessary for a career in community or school health education. The course will serve as a basis for the necessary Health Education Content Knowledge and also address the Indiana Standards for Teachers of Health Education.

KINS-266 Sexuality and Human Health (3) SII

This course is designed to provide Health Education Teaching majors and other interested students with an introduction to issues associated with human sexuality and the impact it has on health. This course will focus on three primary goals: enhancing knowledge, increasing comfort with subject matter related to sexuality, and facilitating communication about sexuality. The purpose of this course is to (1) provide the student with opportunities to apply knowledge and skills related to sexuality and human health in the delivery of instruction; (2) enable the student to develop a broader knowledge and understanding of sexuality, particularly related to human health; and (3) enable the student to develop skills needed to engage in responsible sexual behaviors.

KINS-268 Stress Management and Human Health (3) A

This course is focused on stress, the impact of stress on human health, and the practice of stress management techniques. The course is designed to enable the student to develop an understanding of stress and stress management, the physiology of stress, the psychology of stress, the relationship between stress and disease, and the relationship of emotional or mental well-being to physical health. Methods of relieving and preventing distress and creating eustress will be discussed and explored. *Prerequisite: KINS-101 or KINS-104 or equivalent.*

KINS-271 Methods of Teaching/Coaching Golf (1) O/SI

Study of the rules, techniques, fundamentals, organization, and teaching and coaching methods of golf.

KINS-273 Methods of Teaching/Coaching Wrestling (1) O/SII

Study of the rules, techniques, fundamentals, organization, and teaching and coaching methods of wrestling.

KINS-274 Methods of Teaching/Coaching Tennis (1) O/SII

Study of the rules, techniques, fundamentals, organization, and teaching and coaching methods of tennis.

KINS-285 Teaching Physical Education in the Elementary Schools (3) SII

Study of educational games, educational dance, and educational gymnastics, fitness, and wellness appropriate to the age and development of the child. The course focuses on the need for a high-quality physical education program in the elementary school and the unique outcomes of such a program. Developing curriculum, effective planning, discipline techniques, and legal liability are all areas that are covered in this course. For specialists in physical education, classroom teachers, and elementary school administrators.

KINS-286 Elementary Physical Education Field Experience (.5) SII

Provides a field experience component to KINS-285 Teaching Physical Education in the Elementary Schools. Lab experiences will be provided in a school system for the student to observe current teaching practices and teach mini-lessons to current students. A minimum of 15 hours in the school system is required. Must be taken concurrently with KINS-285 Teaching Physical Education in the Elementary Schools.

KINS-290 Introduction to Adapted Physical Education (2) SII

Study of conditions that require physical education programs to be adapted to special needs of individuals. Principles and practices in application of exercises and activities appropriate for specific handicap conditions will be discussed. The course will identify various kinds of handicapped and learning-disabled students respective of characteristics and needs. One focus will be defining and understanding terms applicable to adapted, handicapped, and mainstreaming concepts. Principles and organization of specific programs for the physically handicapped and learning disabled will be outlined.

KINS-295 Applied Adapted Physical Education (2) SII

A study and application of physical activity practices of persons with common disabilities found across the lifespan. A review of the historical and philosophical basis for adapted physical activity and the impact of state and federal legislation are included. Analysis of the roles and responsibilities of the adapted physical education specialist and the inclusive educational environment also are examined. The main focus of this course will be applying and practicing concepts in a teaching environment. Various placements will be utilized throughout the city. This course is applicable to all disciplines pertaining to the disabled individual. *Prerequisite: KINS-290.*

KINS-305 Grant Writing in Health and Kinesiology (2) SI

This course is designed for students in the fields of health, exercise science, education, and sports to establish basic skills necessary in seeking financial assistance in the form of grants for projects and/or programs. The student will learn how to locate agencies and organizations that have funding available, how to contact them, how to read the requirements for preparing a grant proposal, and how to follow general guidelines for preparing a grant proposal. Students will prepare grant proposals for an individual or group project and develop the tools necessary to be a useful resource to a nonprofit organization or business as part of a grant-writing proposal team.

KINS-310 Water Safety Instructor (2) SI

Designed to give the student the knowledge and skills to be a certified American Red Cross Water Safety Instructor. This WSI certification will certify students to teach aquatic skills. Student will be American Red Cross-certified upon satisfactory completion of course requirements. *Prerequisite: KINS-103. Age: Minimum 16 years of age by the last day of the course. Skills: At level 6 proficiency (swim test): Front crawl, 25 yards; Back crawl 25 yards; Breaststroke, 25 yards; Elementary backstroke, 25 yards; Side stroke, 25 yards; Butterfly, 15 yards; Supine floating or sculling, 1 minute; and Tread water, 1 minute (all benchmarks must be met by the first day of class).*

KINS-320 General Safety (3) SI

The study of the nature and scope, cause and prevention, and statistical analysis of the various kinds of accidents that occur in our society. Occupational and recreational safety as well as natural and man-made disasters will be researched. This course focuses on home, school, and traffic safety, including all aspects of safety instruction and providing a safe environment.

KINS-315 Professional Seminar in Exercise Science & Sport Management (2) SII

This course is designed to equip students with the skills necessary to obtain an internship position and find employment in the fields of Exercise Science and Sport Management. Students will examine the expectations of professionals in these fields and participate in exercises that will enhance their job application, job interview, and job retention abilities.

KINS-325 Exercise Leadership and Programming (2) SII

This course is designed to provide students with an overview of the educational concepts, performance techniques, program design, and leadership skills needed to teach group-led exercise programs and design personal training programs. The course will include basic analysis and application of safe and effective exercise procedures for all fitness levels. The students will be expected to lead and perform aerobic and other group exercise activities. *Prerequisite: BIOL-103.*

KINS-330 Community Health Methods and Materials (3) SI

This course is designed to provide students with the necessary skills to plan and implement a variety of health promotion lessons and methods in the school, clinical, hospital, or worksite settings. Emphasis will be on

facilitating prepared units/lessons to respective target populations, such as students, employees, patients, or community members. The course will enable the student to select methods and develop a presentation or lesson in order to effectively communicate an educational session with specific learning or behavioral objectives. Students will be capable of creating and implementing an individualized change program through a process of risk analysis, individualizing a behavior change program, and counseling the client, student, or patient toward success.

KINS-335 Motor Control (4) SII

The course provides an introduction to neurophysiology with emphasis on motor control. Topics include organization of the central nervous system, reflexes, integration of sensory information, experimental approaches to study motor control, and contemporary motor control issues. Theories of motor control are discussed in detail. Three hours lecture, two hours laboratory per week. *Prerequisites: BIOL-103 and 104.*

KINS-336 Theories of Health Behavior (3) SI

This course will explore the contribution that basic behavioral and social science theories can make to the design and implementation of public health programs. Given that many public health interventions have as their goal to change the health behavior of a population or community, understanding the process of behavior change is critical to designing effective programs. In addition to theories that address individual motivations and obstacles to behavior change, public health practitioners also must draw upon constructs and concepts that explain how health behavior is shaped by the individual's relationships to other individuals (interpersonal factors), to their geographic and cultural communities (community factors), and to the larger society (socio-political factors). Students will be capable of creating and implementing an individualized change program through a process of risk analysis, individualizing a behavior change program, counseling the client/student/patient toward success, and evaluating the impact of the program on the individual. *Prerequisites: KINS-260 and PSY-120 OR EDUC-203.*

KINS-340 Administration of Athletics (3) SII

This course is designed to study the aims and objectives of program planning, departmental and class organization, and administration and supervision involving facilities, equipment, budgeting, care of equipment, and athletic field maintenance.

KINS-345 Legal Issues and Risk Management in Sport (3) SI

Most sport activities occur in settings that are potentially litigious. Students will become familiar with the legal concepts in those areas that they are most likely to encounter in the workplace and learn to develop strategies for dealing with the risks inherent in sport and sport activities.

KINS-350 Exercise Physiology (4) SI

A study of physiological changes that occur with acute and chronic exercise. Integration of cardiorespiratory, muscular, and biochemical system responses and training adaptations are emphasized. Three hours lecture, two hours laboratory per week. *Prerequisites: BIOL-103, 104, KINS-245 or ATRG-100.*

KINS-351 Physical Education Methods for Elementary Classroom Teachers (1) N

Study of classroom organization and curriculum development in physical education. Students learn to design and implement a variety of instructional and assessment strategies. Activities relate research and theory of teaching methodology to practical problems faced in the field. Must be taken concurrently with student teaching.

KINS-352 Health Education Methods for Elementary Classroom Teachers (1) N

This course is designed to provide elementary education teachers with the knowledge and skills they will need to teach health education in elementary schools and be a partner in a coordinated school health program. This course is designed to align with the Indiana Professional Teacher Standards for the Early and Middle Childhood Generalist, such that pre-service teachers of early and middle childhood will be able to create opportunities for student development and practice of skills that contribute to good health.

KINS-355 Management and Design of Sports Facilities (3) SI

This course is designed to provide students with an orientation to the various theories, structural makeup, design, operations, and functions as related to recreational facilities. Following an overview of the foundations of management and its various resources as they relate to facilities, the course will address facility development, its usage considerations, and auxiliary functions that have an impact on the manager's role. Understanding of organizational involvement, social and ecological issues, development of administrative and professional policy, management of programs, and current research findings relative to programming also will be included as topics.

KINS-360 Organizational Leadership in Sport (3) SI

This course will study the necessary leadership skills and competencies of sports leaders. Throughout the course, personal styles of leadership will be addressed and students will learn to recognize leadership components. This course will allow students to learn leadership skills through theoretical study and assessment of leadership strengths and weaknesses. A key to this course will involve the students' willingness to learn and take responsibility for applying leadership skills in their organization's productivity. The intent of this course is to enhance the student's leadership development.

KINS-365 Worksite Health Promotion (3) SII

This course covers the design and implementation of worksite health promotion programs and the benefits these programs have for both employees and employers. Special attention will be paid to developing programs in the high need areas of healthy eating, physical fitness, and stress management. Students will review various health risk appraisals and plan theory-based incentive programs designed to promote positive lifestyles.

Prerequisites: KINS-190 and KINS-260 or permission of the instructor.

KINS-370 School Health Methods (3) SII

This course focuses on the organization and development of the school health program and the coordination of the school health program with community health practices. This course offers practical experience in the state-mandated topics of school health: HIV/AIDS, drugs, organ donation, immunizations, and breast and testicular self-exams, in addition to other health issues. Health education teaching methods are explored and practiced. *Prerequisites: KINS-260, KINS-266, KINS-420.*

KINS-375 Progressive Resistance Exercise and Sports Conditioning (2) SII

This course focuses on practical aspects of assessing strength and power, and creating resistance exercise programs, for the recreational or competitive athlete. Other topics include exercise programming to increase agility, and the use of plyometrics.

KINS-380 Sport and Exercise Psychology (2) SI

Provides students with a comprehensive view of sport and exercise psychology and bridges the gap between research and practice. Allows students to gain an understanding of the field while learning how to apply

sport and exercise knowledge. Includes concepts in history; various roles of sport and exercise psychologists; personal factors that affect performance and psychological development in sport, physical education, and exercise settings; and situational factors that influence behavior: competition and cooperation, feedback and reinforcement. Topics include group interaction and processes; how psychological techniques may be used to help performance; roles psychological factors play in health and exercise; and the psychological development and well-being that are important to society as well as sport and exercise psychology, including children's psychological development through sport participation, aggression in sport, and moral development and good sporting behavior in sport and physical activity contexts. *Prerequisites: EDUC-203, PSYC elective, or permission of instructor.*

KINS-390 Health Communication and Social Marketing (3) SII

This course introduces the role of health communication in public health programs. The course will focus on the use of communication strategies to inform and influence individual and community decisions regarding health. Core topics will include health communication theory; the role of social marketing and mass media; management of communication programs; interpersonal communication; social networks and social change; legal and ethical concerns in health communication; and the design of health campaigns. *Prerequisites: KINS-190 and KINS-260 or permission of the instructor.*

KINS-395 Professional Practice Programs in Exercise Science (6) A

This course is the Exercise Science internship, in which the student culminates the degree in a career-related work experience.

KINS-400 Assessment and Research Principles of Physical Activity and Health (3) SII

This course will provide students with an understanding of the critical role of evaluation in assessing the effectiveness of community/school health and physical education programming. The course is designed to develop an understanding of the importance of utilizing various types of tests, measurement procedures, and assessment tools in community health and physical education as an integral part of programming, curriculum, and instruction. Students will be exposed to the basic theoretical concepts as well as the methodology of program evaluation. The primary focus will be on the practical application of evaluation principles and methods. The study of elementary statistical techniques and terminology are included as well as developing class norms. Physical education and health principles and grading philosophies are discussed. Students will learn to conceptualize, design, implement, and evaluate the impact of a new or existing intervention. *Prerequisites: Math elective, EDUC-220 or COMP-150 or EDUC-497.*

KINS-405 Performance and Cardiovascular Training (2) SI

This course focuses on practical aspects of assessing cardiovascular fitness, and creating cardiovascular exercise programs, for the recreational or competitive athlete. Other topics include exercise programming to increase speed.

KINS-410 Biomechanics (4) SII

An introduction to the mechanics of human motion. Includes linear and angular kinematics and kinetics in the context of human motion, mechanics of fluids, mechanics of muscles, and analysis of selected sports activities. Three hours lecture, two hours laboratory per week. *Prerequisites: PHYS-150, PHYS-155 or ATRG-215.*

KINS-420 Drugs and Social Involvement (3) SI

Study of drugs and their effects, both physical and mental, as seen in the behavior of the abuser toward his or her environment. Included in the course is a section on the health aspects of drug use and abuse along with

community involvement. Also included is a discussion of the relevant issues of contracting the AIDS virus. The course relies heavily on open discussion, visual aids, guest lecturers, and psychodrama.

KINS-440 Epidemiology (3) SI

Epidemiology is the study of how disease is distributed in populations and of the factors that influence or determine this distribution. This introductory course introduces the basic methods and tools epidemiologists use to study and enhance the health of populations, as applied to both clinical and public health settings. Three basic themes are covered: (1) the epidemiological approach to disease and intervention; (2) using epidemiology to identify the cause of disease; (3) applying epidemiological principles to disease prevention. *Prerequisites: BIOL-103, BIOL-104.*

KINS-455 Personal Health Project (1) A

Seminar and capstone experience for senior students enrolled in the Healthy Diploma™ program. Students will propose and develop their personal health project and work with an adviser to complete. This is a self-directed course consisting of a research project, self-reflection, service project, or other project concept accepted by the Healthy Diploma™ faculty committee and Healthy Diploma™ coach. Projects must be personal and based on at least one of the eight dimensions of wellness: physical, mental, social, spiritual, intellectual, environmental, occupational, and/or financial. Each student completing the requirements for the Healthy Diploma™ will be expected to apply critical thinking and creativity to his/her personal wellness dimension project. Students will present their projects to a larger audience near the end of the term. *This course is open to Healthy Diploma™ students only. Prerequisites: KINS-101 or KINS-104, KINS-249, and two of the following: KINS-266, KINS-268, and KINS-420.*

KINS-460 Field Experience in Sport Management I (6) A

This course is designed to provide in-depth practical experiences to help the student bridge the gap between classroom learning and practical application in sport settings. This course will allow students to explore career options, develop management skills, and gain a greater understanding of the total operation of sport organizations.

KINS-461 Field Experience in Sport Management II (6) A

This course is designed to provide in-depth practical experiences to help the student bridge the gap between classroom learning and practical application in sport settings. This course will allow students to explore career options, develop management skills, and gain a greater understanding of the total operation of sport organizations.

KINS-465 Health Education Program Planning and Evaluation (3) SI

Careful planning and evaluation of public health programs are essential competencies for public health professionals. Students will gain a basic understanding of how to plan, implement, and evaluate the effectiveness of a community health program. This course is designed to be grounded in community health practice. Students will select a community organization interested in implementing a health education program, then work with the organization to plan, implement, and evaluate the effectiveness of the desired program. *Prerequisites: KINS-330, KINS-336*

KINS-470 Exercise Science Lab (3) SI

This laboratory is designed to provide students with practical experience in the collection of scientific and clinically relevant data in exercise science. Methods studied include (but are not limited to) assessment of

aerobic and anaerobic capacities, body composition, motion mechanics, reaction time, and electromyography (EMG) data. *Prerequisites: KINS-335, KINS-350, KINS-410.*

KINS-480 Special Topics in Health and Physical Education (1–3) D

Comprehensive examination of a health or physical education topic not covered in depth in another health or physical education course. Topics vary, and students may repeat the course for credit if the topic is different.

KINS-485 Readings in Exercise Science (1) A

Students in this course will be expected to read and discuss papers, texts, and lay literature pertaining to exercise science. Readings can include original scientific literature, critiques of lay articles or lay Web sites, textbooks, society position statements, certification exam materials, review papers, meta-analyses, and other related materials.

KINS-490 Exercise Prescription (3) SII

A study of current science-based methods of prescribing exercise. Applications to various populations will be discussed, including athletes, the elderly, children, and medically at-risk individuals. *Prerequisites: KINS-350, KINS-335, and KINS-410 (KINS-410 can be taken concurrently with KINS-490).*

KINS-495 Professional Experience in Community Health Education (3) A

The purpose of this course is to provide the student a link between classroom theory and professional practice through supervised work experience in a selected community health setting. *Prerequisites: KINS-365, KINS-390, KINS-465.*

KINS-499 Professional Seminar in Physical Education and Health Education (1) A

Seminar for senior students in teaching physical education and health. History and philosophy of physical education and health education as it affects curriculum, grading, professional development, public relations, and other critical issues in teaching of physical education and health will be addressed. Professional portfolio completion and exit interview will be included. *Prerequisite: EDUC-390.*

Language Studies Courses

Language studies courses are interdisciplinary courses offered through the Modern Languages Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

LANG-205 Foreign Language Diction (3) N/D

Designed to prepare students interested in vocal performance, news reportage, and foreign affairs to pronounce words and phrases in French, German, Spanish, and Italian. The study encompasses diction, intonation, and other pronunciation factors.

LANG-340 Medieval Studies (4) N

Study of medieval life, thought, and culture as expressed in the literature of France, Spain, and Germany and reflected in art, music, and religion from the ninth to the 15th centuries. The course is conducted by the Language Department with assistance from other departments. The course is taught in English and is open to non-language majors. Foreign language majors and minors read works in the original language. *Prerequisite for foreign language majors and minors only: FREN-201, GERM-201, or SPAN-201 or equivalent, or consent of instructor.*

LANG-360 Cultural Linguistics (3) N

Beginning with a survey of linguistics, the course follows with a series of directed investigations into various aspects of the pivotal relationship between human languages and human cultures and examines several aspects of how one's language use reflects one's culture as well as the cultures of other societies. (*Cross-listed as ANTH-360.*)

LANG-400 Modern Language Service Learning (2) SI/SII

Students use French, German, or Spanish in community service situations around the city. *Prerequisite for Spanish is SPAN-201 or equivalent. For French or German, FREN-201 or GERM-201 or consent of the instructor is needed.*

Management Courses

Management courses are offered through the School of Business. Information about the school and its majors and minors can be found in the section entitled Academic Units.

MGT-281 Management (3) A

Study of the functions of management—including planning, organizing, leading, and controlling the business enterprise. Decision-making techniques, international management, human resource management, production management, and the importance of financial management are emphasized.

Marketing Courses

Marketing courses are offered through the School of Business. Information about the school and its majors and minors can be found in the section entitled Academic Units.

MKTG-290 Marketing (3) A

Overview of marketing planning and decision-making for the firm. Product planning, distribution strategy, promotional strategy, and pricing strategy are emphasized.

MKTG-295 Consumer Behavior (3) D

Study of the basic principles of consumer behavior, including a review of the scientific investigations on which knowledge of this behavior is based. The student should develop an awareness of how these consumer behavior findings can be applied practically to the professional practice of marketing. *Prerequisite: MKTG-290.*

MKTG-393 Advertising (3) A

Introduction to the problems and principles of effective advertising, including a study of advertising messages, layout, selection of advertising media, and evaluation of the advertising program. *Prerequisite: MKTG-290.*

MKTG-394 Sales and Sales Management (3) SII

Focus on developing modes of effective relationships, both as salespeople and sales managers. Renewed conceptions in the business of helping others solve problems (relationship sales) guide coursework through knowledge patterns about products/services, people interactions, industry processes, and competing companies. Inextricably linked, personal selling and managing sales are bound up narratively through field projects, cases, technology, and structures and tooled to compete effectively, ethically, and globally. "Learning by doing" is stressed. *Prerequisite: MKTG-290.*

MKTG-396 International Marketing (3) SI

Application of basic marketing principles and tools to the international environment. International marketing programs are analyzed from the determination of objectives and methods of organization through implementation of research, production, pricing, advertising, and distribution activities. *Prerequisite: MKTG-290.*

MKTG-420 Marketing Topics (3) D

Course focusing on a different marketing topic each time it is offered. Topics might include sports marketing, marketing for the arts, or marketing for nonprofit organizations. MKTG-420 also may be offered as a travel course with on-site visits to several European countries and with field experiences that show how culture influences marketing exchanges and institutions. Topics will rotate depending on demand. *Prerequisite: To be determined by topic.*

MKTG-494 Marketing Research (3) SI

Course designed to help the student develop an understanding of the types of information that can be made available through marketing research. The marketing research process and marketing decision process are presented and practically applied. The computer and statistical tools are used in this applied approach. *Prerequisite: MKTG-290, MATH-220, and junior standing.*

MKTG-495 Marketing Strategy (3) SI

Study of the synthesis of marketing concepts with the total decision-making activity of management. The study of marketing as the strategic revenue-producing arm of a company and the complexity of the marketing function. *Prerequisite: MKTG-290, ACCT-210, ECON-366, and senior standing in the School of Business.*

MKTG-497 Marketing Simulation (3) SII

Course designed to offer students the experience of making business decisions in which they must integrate what they have learned in prior marketing courses. The computer simulation game for marketing, Prentice Hall's BRANDMAPS is used in the course. *Prerequisite: MKTG-495 and senior standing in the School of Business, or consent of the instructor.*

Sports Marketing Courses

Sports Marketing courses are offered through the School of Business. Information about the school and its majors and minors can be found in the section entitled Academic Units.

MKTS-300 Introduction to Sports Marketing (3) SI

An overview of sports marketing as a component of a fully integrated marketing communication strategy. Students will study the history and contemporary application of sports marketing as a method to achieve specific business objectives. The course will provide an introduction to research, segmentation, product development, pricing, licensing, and communication channels such as advertising, sales promotion, and publicity. *Prerequisite: MKTG-290.*

MKTS-350 Economic Aspects of Sports Marketing (3) SII

The study of finance and economics in sports, including budget development and management, funding, capital improvement and investments, supply and demand trends, and economic impact of sport and leisure events. The course will provide comprehensive coverage of traditional and innovative revenue acquisition methods available to sports organizations from public and private sources, as well as detailed consideration of venue-based income sources. *Prerequisite: MKTS-300.*

MKTS-410 Strategic Issues in Sports Marketing (3) SI

A strategic overview of sports marketing topics and issues concerned with customer analysis, market segmentation, positioning, promotion, sponsorship, distribution, and pricing. *Prerequisite: MKTS-300.*

Mathematics Courses

Mathematics courses are offered by the Mathematics Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

MATH-090 Elementary Algebra (*) A

A review of basic mathematics, essentially at the level of ninth grade algebra. Decimals, fractions, proportions, percents, introductory algebra, and geometry. This course may not count toward any degree program. A preparatory course, it does not carry college-level credit (earned hours) nor a grade. May not be taken on an audit basis. Does not satisfy the mathematics component of the core.

** Although the course does not carry college-level credit (earned hours), it counts for three hours toward athletic and financial eligibility. Three hours also will be applied to athletic and financial aid progress on successful completion of the course.*

MATH-105 Intermediate Algebra (3) A

Review of rational expressions; exponents, roots, and radicals; linear equations and inequalities; quadratics; quadratic equations and inequalities; systems of linear equations; matrices; graphing; introduction to functions. Designed as a bridge to more advanced coursework in mathematics for students with a particularly weak background in algebra. Students who have had a previous course in calculus will not be admitted into MATH-105. *May not count toward any major or minor program in mathematics. Does not satisfy the mathematics component of the core.*

MATH-108 Discovery in Mathematics (3) A

Focuses on areas of management science (including graph theory, scheduling, etc.), statistics, and additional selected topics from linear programming, probability, combinatorics, and consumer finance. The course emphasizes problem-solving and real-world applications relating to these topics and is intended to promote critical thinking and mathematical skill. May not count toward any major or minor program in mathematics. *Prerequisite: MATH-090 or its equivalent. Cannot be substituted for MATH-105 or used as a prerequisite for any other course.*

MATH-150 Finite Mathematics (4) A

Graphical and algebraic methods for solving systems of equations and inequalities, matrices, linear programming (graphical and simplex methods), sets, counting techniques, and probability. Applications in a variety of fields. May not count toward any major or minor program in mathematics. *Prerequisite: MATH-105 with a grade of C- or better or mathematics competency (see page 74).*

MATH-180 College Algebra and Trigonometry (4) Y

Products, factoring, fractions, linear and quadratic equations, graphs, inequalities, functions, exponents, logarithms, polynomials, complex numbers, and systems of equations. Trigonometric functions, solution of plane triangles, multiple-angle formulas, trigonometric identities, graphs of trigonometric functions, and inverse trigonometric functions. May not count toward any major or minor program in mathematics. It is recommended that students who have succeeded in a trigonometry course take a more advanced mathematics course. *Prerequisite: MATH-105 with a grade of C- or better or mathematics competency (see page 74).*

MATH-185 Orientation to the Mathematical Sciences (1) SI

A course for majors in mathematics, mathematics teaching, and computer science. This course is intended to acquaint students with the academic programs and facilities of the department and those of the University at large and to inform students about professional, educational, and technological issues and opportunities that they will confront in the long-term transition from student to professional. Should be taken as soon as possible by all majors in mathematics, mathematics teaching, and computer science.

MATH-190 Calculus and Analytic Geometry I (4) A

Limits, derivatives of algebraic and trigonometric functions, continuity, techniques of differentiation. Applications to graphing, optimization, velocity, and rate of change. Introduction to differential equations. *Prerequisite: MATH-180 with a grade of C- or better or its equivalent, or consent of department. (Most students whose background includes success in three years of high school mathematics will be well-prepared for this course.)*

MATH-191 Calculus and Analytic Geometry II (4) A

Antiderivatives, definite and indefinite integration; applications to area. Techniques of integration; applications of the definite integral. Indeterminate forms; infinite sequences and series. Differential equations. *Prerequisite: MATH-190 with a grade of C- or better or its equivalent.*

MATH-195 Discrete Mathematics (4) A

A study of discrete structures, with topics selected from sets, functions, and relations, Boolean algebra, combinatorics, and graph theory. *Prerequisites: MATH-150 or 180 with a grade of C- or better or either equivalent.*

MATH-208 Elementary Teachers' Mathematics I (3) SI

Fundamental concepts of basic arithmetic for elementary teachers. Topics include problem solving, sets, whole numbers, numeration systems, number theory, integers, rational numbers, real numbers, and functions. *May not count toward a mathematics major or minor. Prerequisites: Two years of high school mathematics or MATH-105.*

MATH-210 Elementary Teachers' Mathematics II (3) SII

Fundamental concepts of geometry, statistics, and probability for elementary teachers. Geometric topics include figures, measurement, tiling, constructions, and similarity. *Prerequisite: MATH-208 with a grade of C or higher.*

MATH-220 Elementary Statistics (4) A

A noncalculus introduction to concepts of probability and statistics in various fields: graphical and numerical displays of data, descriptive linear regression and correlation, statistical design, probability, sampling distributions, interval estimation and hypothesis testing, and one-way analysis of variance. Computer lab sessions form an important part of the course. *May not count toward a mathematics major. Prerequisite: MATH-150, 180, or 190 with a grade of C- or better or the equivalent of any of these, or consent of department.*

MATH-245 Statistics for the Sciences (4) Y

An introductory course in statistics for the life sciences. Graphical and numerical techniques of description, probability, random variables, discrete and continuous distributions, sampling distributions, confidence intervals, hypothesis testing, statistical design, goodness-of-fit tests, contingency tables, analysis of variance, and simple linear regression. Computer lab sessions form an important part of this course. *Prerequisite: MATH-150, 180, or 190 with a grade of C- or better or the equivalent of any of these, or consent of the department.*

MATH-270 Calculus and Analytic Geometry III (4) SI

Vectors, curves, and surfaces in three dimensions; partial differentiation; multiple integrals; vector analysis. Parametric equations. Polar coordinates. *Prerequisite: MATH-191 with a grade of C- or better or its equivalent, or consent of department.*

MATH-280 Linear Algebra (4) A

Systems of linear equations, matrices, canonical forms, fundamental theorems of matrix algebra. Vector spaces and subspaces; dimension. Linear transformations and their matrix representation. The course will place equal emphasis on the geometric motivation of topics, the theoretical import of major theorems, and the application of concepts. *Prerequisite: MATH-191 with a grade of C- or better or its equivalent, or consent of department.*

MATH-300 Foundations of Abstract Mathematics (4) SII

A course for majors in mathematics and mathematics teaching, also appropriate for mathematics minors. This course emphasizes exploration, discovery, and proof as techniques crucial to the mathematician. It provides a conceptual “bridge” between the largely calculation-based mathematics encountered in the calculus sequence and the more abstract and theoretical expectations of later coursework. Topics include logic, set theory, graphs, and trees. *Prerequisite: MATH-191 with a grade of C- or better or its equivalent, or consent of the department. (MATH-280 is a recommended pre- or corequisite.)*

MATH-320 Problem Solving (1/2-1) SII

Techniques of problem solving in the mathematical sciences. Since the problems and topics studied in this course will vary from year to year, the course may be taken for credit up to four times. *Prerequisite or corequisite: MATH-190 with a grade of C- or better or its equivalent or consent of the department.*

MATH-325 Special Topics in Mathematics (1/2–4) D

Advanced or special topics not covered in other mathematics courses, such as advanced number theory, topics in advanced abstract algebra or real analysis or topology, differential geometry, mathematical logic, set theory, complex analysis, graph theory, actuarial mathematics, advanced statistics, directed student research, or operations research. Students may enroll in this course more than once, but only once for a given topic. *Prerequisite: Consent of the department.*

MATH-330 Differential Equations (3) SI

Ordinary differential equations, techniques for their solution, and various applications. *Prerequisite: MATH-191 with a grade of C- or better or its equivalent or consent of department.*

MATH-356 Mathematical Theory of Interest (3) SI

An introduction to financial mathematics. Topics include compound interest, annuities, yield rates, bonds, amortization schedules, and practical applications. *Prerequisite: MATH-191 with a grade of C- or better.*

MATH-380 Modern Geometries (3) SII

Plane geometry is developed rigorously from Hilbert’s axioms with an eye toward understanding the dilemma of Euclid’s fifth (parallels) postulate. The development of non-Euclidean geometry is then covered from Euclid through the 19th century, and theorems of Euclidean and hyperbolic geometry are explored. *Prerequisite: MATH-300 with a grade of C- or better, or consent of the department.*

MATH-400 History of Mathematics (3) D

Within the framework of the history of mathematics from Ancient Greece to the mid-19th century, certain developments will be studied in detail. Among possible topics are Greek geometry, Islamic mathematics (algebra and mathematical astronomy), Renaissance mathematics (algebra), the development of the calculus, and the development of non-Euclidean geometry. *Prerequisite: MATH-191 with a grade of C- or better or its equivalent, or consent of the department.*

MATH-420 Number Theory (3) D

Numbers and their representations, divisibility and factorization, congruences, modular arithmetic, Diophantine equations and their solution, quadratic residues, Pell equations. Primes and their distribution, number-theoretic functions, number-theoretic algorithms. *Prerequisite: MATH-300 with a grade of C- or better or consent of the department.*

MATH-430 Abstract Algebra I (3) O/SI

A course on group theory. Groups, subgroups, and normal subgroups, factor groups, product groups, homomorphisms, and isomorphisms. Fundamental homomorphism theorems, structure of finite abelian groups. *Prerequisites: MATH-280 and 300 with grades of C- or better or consent of department.*

MATH-431 Abstract Algebra II (3) O/SII

Continuation of MATH-430; a course on rings and fields. Rings, integral domains, fields and field extensions. Algebraic extensions, splitting fields, Galois theory. *Prerequisite: MATH-430 with a grade of C- or better or its equivalent.*

MATH-450 Probability and Statistics I (3) SI

An introduction to the calculus of probability; includes the axioms and properties of probability, conditional probability, independence, random variables, discrete and continuous distributions, mathematical expectation, moment generating functions, and multivariate and conditional distributions. *Prerequisites: MATH-191 and 280 with grades of C- or better or consent of the department.*

MATH-451 Probability and Statistics II (3) SII

Continuation of MATH-450; a course in mathematical statistics that includes sampling distributions, central limit theorem, point and confidence estimation, tests of hypotheses, linear regression, correlation, goodness-of-fit tests, contingency tables, analysis of variance, and nonparametric methods. *Prerequisites: MATH-450 with a grade of C- or better or its equivalent.*

MATH-456 Actuarial Mathematics (3) SI

An introduction to actuarial models and their application to insurance. Topics include survival distributions, life tables, life insurance, life annuities, premiums and reserves. *Prerequisites: MATH-356 and MATH-450 with grades of C- or better.*

MATH-466 Loss Models (3) SII

A study of loss models in an actuarial context. Topics include frequency and severity models, compound aggregate models, and ruin models. *Prerequisite: MATH-450 with a grade of C- or better.*

MATH-480 Real Analysis I (3) O/SI

Basic set theory, sequences and subsequences, structure of the real numbers, topology of the real line and Euclidean n -space, limits, convergence, continuity, derivatives, and functions of bounded variation. *Prerequisite: MATH-300 with a grade of C- or better or consent of the department.*

MATH-481 Real Analysis II (3) O/SII

Continuation of MATH-480. The Riemann-Stieltjes integral, Fourier series and integrals, infinite sums and products, sequences of functions, the Lebesgue integral, and L_p spaces. *Prerequisite: MATH-480 with a grade of C- or better.*

MATH-485 Topology (3) D

A course in elementary point-set topology. The basic topology of Euclidean and metric spaces. Topological generalizations of ideas of limit and continuity. Topological invariants, separation axioms, connectedness, compactness, topological morphisms; the classification of topological spaces. *Prerequisite: MATH-480 with a grade of C- or better or consent of the department.*

Music Courses

Music courses are offered through the Music Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

MUS-100 Music Fundamentals (3) SI

Basic music theory skills for students who require remediation in music, including rhythms, pitches, time signatures, key signatures, major and minor scales, intervals, and triads. Basic keyboard skills, sight-singing, and ear training. Regularly scheduled computer-assisted drill sessions. The course may not count toward a music major or minor.

MUS-101 Introduction to Music Theory (2) SI

An introduction to basic music theory skills including experiences with rhythms, pitches, time signatures, key signatures, scales, intervals, and triads involving sight-singing and basic keyboard skills in the Music MIDI laboratory. For non-music majors. Meets fine arts lecture/theory requirement in the core. *No prerequisites.*

MUS-104 Explorations in Music Education(2) SII

An introduction to teaching music in the public schools required of all students considering a music education major. Students are introduced to the K–12 National Music Standards, INTASC standards, and Indiana licensing procedures. Through reading, writing, field experiences, and discussions, student consider the implications of a particular philosophy of music education, various styles of teaching/learning, and music knowledge and skills, as well as dispositions necessary to become an excellent music teacher. Issues related to music assessment, classroom management, and different types of school settings are considered. *Field experience.*

MUS-105 Freshman Seminar in Music (1) SI

An introduction to skills, requirements, and resources for the freshman music major. Topics include general success strategies for college life, introduction to music research and resources, music department expectations and requirements, an overview of general education core and specific music degree requirements, basic music literacy, and a brief overview of historical music styles. *Required of all freshman music majors.*

MUS-110 Introduction to Music (2) A

Chronological survey of the Western world's great music, with an emphasis on listening to specific elements of music and on the relationship of music to cultural and social forces of its time. Units on jazz, American popular music, and non-Western music may be included. *For non-music majors.*

MUS-112 Introduction to Jazz (2) A

An introduction to jazz styles and jazz history from Dixieland, swing, and bebop to such contemporary performers as Herbie Hancock and Chick Corea. Elements of improvisation within a basic theoretical framework.

MUS-113 Voice Class (2) A

Practical study of the basic techniques of singing: breath control, register balance, and tonal focus. Rudiments of sight-singing to be learned in preparation of simple songs. *For non-music majors.*

MUS-114 Guitar Class I (2) A

Practical study of the basic techniques of guitar playing: note reading, chords, and finger-picking accompaniment. *For non-music majors.*

MUS-115 Guitar Class II (2) A

Continuation of MUS-114. *For non-music majors.*

MUS-116 Piano Class I (2) A

Practical study of the basic techniques of piano playing: note reading, technical exercises, and solo and ensemble playing. In a laboratory of digital pianos with disk drives, students will use accompaniment software written for graded repertoire, digitally record their own performances for playback analysis, and have the opportunity to create and record their own orchestrations. *For non-music majors.*

MUS-117 Piano Class II (2) A

Continuation of MUS-116. *For non-music majors.*

MUS-118 Keyboard Skills I (1) SI

Basic keyboard skills for music majors and minors whose primary applied area is not piano: scales, arpeggios, harmonization, transposition, sight-reading, and repertoire pieces. In a laboratory of digital pianos with disk drives, students will use accompaniment software written for graded repertoire, digitally record their own performances for playback analysis, and have the opportunity to create and record their own orchestrations. *Prerequisite: Note-reading proficiency.*

MUS-119 Keyboard Skills II (1) SII

Continuation of MUS-118.

MUS-122 Keyboard Skills III (1) SI

For Music Education majors who have completed MUS-119. Music majors who have completed MUS-119 and are not in Music Education are welcome on a space-available basis.

MUS-121 Elementary Theory (3) A

Introduction to the tonal procedures of the Common Practice Period with an emphasis on related musicianship skills. Principles of chord progression and succession, triad inversion, figured bass, harmonization, part-writing,

analysis, sight-singing, and rhythmic, melodic, and harmonic dictation. *Prerequisite: Demonstrated proficiency in music fundamentals or successful completion of MUS-100.*

MUS-125 Microcomputer Applications in Music (2) SII

Introduction to applications of personal computers for the musician and music teacher. Laboratory experiences in word processing, database management, Web page design, Musical Instrument Digital Interface (MIDI), sequencing, music notation, and composition programs. Exploration of commercial software for music instruction and management. Meets core computer requirement. *Prerequisite: MUS-121 or consent of instructor. One section each semester designated specifically for Music Education majors.*

MUS-131, 232, 233, 332 Music History Survey I, II, III, IV (2, 2, 2, 2) SI, SII, SI, SII

Evolution of Western musical style from ancient Greece to the present day. Introduction to composers, schools of thought, and examination of representative works from all periods within the framework of cultural context, historical perspective, and stylistic influences. MUS-131 includes antiquity, Middle Ages, and Renaissance periods. MUS-232 includes Baroque and Classical periods through Mozart. MUS-233 includes Beethoven through 19th-century Romanticism. MUS-332 includes the 20th and 21st centuries.

MUS-140, 340 Private Applied Keyboard (1, 2, 3) A

(Section designation: 01-06, 09-Piano, 07-Organ, 08-Harpsichord)

MUS-141, 341 Private Applied Strings (1, 2, 3) A

(Section designation: 01, 07-Violin, 02-Viola, 03-Cello, 04-Bass, 05, 06-Guitar)

MUS-142, 342 Private Applied Brass (1, 2, 3) A

(Section designation: 01, 05-Trumpet, 02-French Horn, 03-Trombone, 04, 06-Tuba)

MUS-143, 343 Private Applied Woodwinds (1, 2, 3) A

(Section designation: 01, 06-Flute, 02, 07-Clarinet, 03-Oboe, 04-Bassoon, 05-Saxophone)

MUS-144, 344 Private Applied Percussion (1, 2, 3) A

MUS 145, 345 Private Applied Voice (1, 2, 3) A

MUS 150-156 Performance Disciplines: (1) A

MUS 150- 01 Woodwinds (1) A

MUS 150-02 Brass (1) A

MUS 150-03 Piano and Guitar (1) A

MUS 150-04 Percussion (1) A

MUS 150-05 Voice (1) A

MUS 150- 06 Strings (1) A

MUS 150- SE Sophomore Evaluation (0) SII of the Sophomore year (or as determined by the music department chair)

An area-specific class required of all music majors in which the assessment evaluations for masterclass, departmental recitals, juries, and/or recital hearings are housed. Scheduled fees are assessed per specific instrumentation and support the accompaniment requirements necessary for that discipline. The MUS 150-SE is specifically for the Sophomore Evaluation performance assessments and must be registered for concurrently with another MUS-150 PD class in the second semester of the sophomore year or for transfer students as determined by the music department chair.

MUS-160 Concert Choir (.5/1) A

Mixed (SATB) choral ensemble that performs literature from the Renaissance to the 20th century, both a cappella and with instrumental accompaniment, and major works with orchestra. Concert tours to Europe on alternate years. Meets four hours weekly. *Audition required.*

MUS-161 Symphonic Wind Ensemble (.5/1) A

This wind and percussion ensemble presents multiple concerts each semester, with each designed to reflect great variety and a high level of musicianship. Musical repertoire includes highly regarded original band works as well as select transcriptions of orchestral repertoire. In addition to on-campus performances, the ensemble conducts regional and international tours. Meets four hours weekly. *Audition required.*

MUS-162 Pep Band (.5/1) A

This instrumental ensemble performs at all home football games and select home basketball games, with the primary goal of enhancing the atmosphere by providing spirited music. The ensemble meets one hour weekly; no audition is required. *No audition required.*

MUS-163 UIndy Jazz Ensemble (.5/1) A

A big band jazz ensemble of 15 to 18 members. Development of sight-reading and performance skills in various big band styles. Performs on campus and occasionally in local jazz clubs. Meets three hours weekly. *Audition required.*

MUS-165 Crimson Express (.5/1) A

A vocal ensemble that performs music in both popular and jazz genres, arranged and performed with acoustic and electronic accompaniment. Meets three hours weekly. *Audition required.*

MUS-166 Women's Chorus (.5/1) A

A choral ensemble made up of women's voices performing a cappella and accompanied literature of all periods. Meets two hours weekly. *Audition required.*

MUS-167 Musical/Opera Production (.5/1) SII

Full-scale opera or musical production with scenery, properties, costumes, and orchestral accompaniment. Jointly produced by the music and theatre departments. Occurs in opposite years. *Audition required.*

MUS-170 Small Ensembles (Vocal and Instrumental) (.5/1) D**MUS-171 Brass Ensemble (.5/1) D**

A coached ensemble with varied brass instrumentation. Meets two hours weekly. Performs on student recitals and for other functions. *Audition required.*

MUS-172 Baroque Ensemble (.5/1) D

A coached ensemble for varied baroque chamber music instrumentation. Meets two hours weekly. Performs on student recitals and for other functions. *Audition required.*

MUS-173 Guitar Ensemble (.5/1) D

A coached ensemble. Meets two hours weekly. Performs on student recitals and for other functions. *Audition required.*

MUS-174 African Drum Ensemble (.5/1) A

Performs (by ear) percussion music based in the African tradition in a concert each semester. Meets 90 minutes weekly. *No audition required.*

MUS-175 Percussion Ensemble (.5/1) A

Performs standard literature as well as ethnic and original works for mallet and other percussion instruments. Meets two hours weekly. *Audition required.*

MUS-176 Beginning Handbell Ensemble (.5/1) A

Development of the art of English handbell ringing. Ensemble performs in student recitals and participates in major concerts. Meets two hours weekly. Note-reading is not required, but recommended. *No audition required.*

MUS-178 Flute Choir (.5/1) D

Meets two hours weekly. Performs each semester in a chamber music concert. *Audition required.*

MUS-179 Collaborative Piano (.5/1) D

MUS-180 Chamber Orchestra (.5-1) A

The Chamber Orchestra is open to all violinists, violists, cellists, and bassists with at least one year of playing experience. The ensemble rehearses twice per week and performs one or two concerts per semester. The winds and percussionist are selected from players in the Symphonic Wind Ensemble.

MUS-181 Choral Union (.5/1) S1/SIID

A choral ensemble made up of students, alumni, faculty, and staff that combines with other music department ensembles to perform major choral works. Choral Union also serves as a laboratory ensemble for advanced choral conducting students. Meets three hours weekly. *Audition required.*

MUS-207 Jazz Keyboard (2) S1

Practical study of jazz piano technique: voicings for the ii-V-I progression, recognition of form, the blues progression, chord substitutions, and study of jazz piano players and styles.

MUS-208 Jazz Improvisation I (3) S1

Beginning jazz theory: scale/chord relationships, beginning chord substitution, listening, and methods of practice. *Prerequisite: MUS-121.*

MUS-209 Jazz Improvisation II (3) SII

Advanced jazz improvisation theory, chord substitutions, song forms, licks, scale patterns, transcription. *Prerequisite: MUS-208.*

MUS-210 Music in World Culture (3) SII

Focus on musical traditions of the non-Western world, including folk and cultivated music of India, the Far East, the Middle East, and Africa. Emphasis on the role and meaning of music in human society. Field project. Meets core requirement for cross-cultural understanding.

MUS-213 Diction for Singers I (2) O/SI

An introduction to the International Phonetic Alphabet and rules of articulation and pronunciation of English and Italian. Geared for the vocal music major or minor. *Prerequisite: MUS-145 or consent of the instructor.*

MUS-214 Diction for Singers II (2) O/SII

An introduction to the rules for articulation and pronunciation of sounds in the German and French languages using the International Phonetic Alphabet. Geared for the vocal music major or minor. *Prerequisite: MUS-145 and 213 or consent of instructor.*

MUS-215 Introduction to Compositional Techniques (2) A

Classroom instruction for the novice composer. Written compositional exercises and short pieces for a solo instrument and/or a small ensemble are required. *Prerequisite: MUS-121.*

MUS-220 Intermediate Theory (3) A

Continued study of diatonic practices with an introduction to chromatic alteration and modulation. Seventh chords, secondary function, tonicization. Related musicianship skills. Written exercises, analysis, aural discrimination, sight-singing, dictation. *Prerequisite: MUS-121.*

MUS-223 Advanced Theory (3) A

Detailed study of chromatic harmony, including altered chords and modulation to remote keys. Small part forms, late Romantic procedures, and an introduction to nonfunctional usage. Written exercises, analysis, aural comprehension, sight-singing, dictation, keyboard harmony, score reading. *Prerequisite: MUS-220.*

MUS-226 Electronic Music I (3) SI

An introduction to the individual system components and their integration in a computer-based MIDI workstation. Students will acquire basic knowledge of synthesizer architecture and elementary sequencing techniques. Students will be encouraged to explore and develop their creative skills in the electronic medium. *Prerequisite: MUS-125.*

MUS-227 Audio Recording I (3) SII

An introduction to the principles of analog recording. Students will learn components of the recording chain, including basics of acoustics and sound, signal flow, microphone types and usage, console operation, and tape recorder operation. Course is split between classroom instruction and hands-on experience in basic recording environment. *Prerequisite: MUS-125.*

MUS-250 Voice Techniques (1) SI

Introduction to techniques of singing and pedagogy for teaching voice privately and in a group setting.

MUS-251 String Techniques (1) SI

Introduction to techniques of playing and pedagogy for teaching violin, viola, cello, and string bass privately and in a group setting.

MUS-252 Percussion Techniques (I) SII

Introduction to techniques of playing and pedagogy for teaching percussion instruments privately and in a group setting.

MUS-253 Woodwind Techniques (I) SII

This course prepares students who plan to teach instrumental music by addressing fundamental performance and pedagogical techniques on woodwind instruments (flute, oboe, clarinet, bassoon, and saxophone). Topics include teaching strategies, common performance problems, basic woodwind repair, equipment, and repertoire.

MUS-254 Brass Techniques (I) SII

Introduction to techniques of playing and pedagogy for teaching trumpet, French horn, trombone, baritone, and tuba privately and in a group setting.

MUS-257 Basic Conducting (2) SII

This required course for all music majors deals with the fundamental aspects of conducting, including basic baton technique, instrumental transpositions, and rehearsal technique. Students are in front of the instrumental/vocal group, made up of their classmates, at least twice per week.

MUS-260 Species Counterpoint (1-2) A

Students of composition gain experience in writing harmony built on the interplay of individual voices—called species counterpoint as developed by Classical-era composer J. J. Fux. Students complete weekly counterpoint exercises in Palestrina style. *Prerequisite: Permission of the instructor.*

MUS-271 Honors Brass Quintet (.5/1) D

Meets three hours weekly. Scholarship ensemble. *Audition required.*

MUS-272 Honors String Quartet (.5/1) A

Meets three hours weekly. Scholarship ensemble. *Audition required.*

MUS-273 Jazz Combo (.5/1) A

Faculty/student ensemble. Development of improvisation skills. Performs on and off campus. Meets two hours weekly. *Audition required.*

MUS-274 Piano Ensemble (.5/1) A

Performs music (for four hands and two pianos) from the 18th through the 20th centuries. Meets 90 minutes weekly. Open to piano majors by permission of the instructor.

MUS-275 Schola (.5/1) A

Chamber vocal ensemble of 14 to 16 singers performing primarily a cappella literature of all periods but concentrating on music of the Renaissance, the Baroque, and the 20th century. Meets three hours weekly. *Audition required.*

MUS-276 Advanced Handbell Ensemble (.5/1) A

Meets two hours weekly. *Audition required.*

MUS-277 Woodwind Ensemble (.5/1) D

A coached ensemble of varied woodwind instrumentation. Meets two hours weekly. Performs on chamber music recitals and for other functions. *Audition required.*

MUS-278 Saxophone Quartet (.5/1) D

Meets two hours weekly, once a week with coach. *Audition required.*

MUS-279 Campus Band (.5/1) SI

This ensemble meets once a week during the fall semester for 1.5 hours, and rehearses intermediate concert band literature. It is open to all students on campus and may serve as a laboratory ensemble for student conductors and music majors desiring to gain proficiency on a secondary instrument. *No audition required.*

MUS-301 Opera Scenes (.5/1) A

Meets two hours weekly. Open to all upper-division students studying voice, on recommendation of voice instructor.

MUS-307 Jazz History (2) O/SI

Study of the evolution of jazz including important periods and musicians, including listening. Eras covered: Pre-jazz, New Orleans, Swing, Bebop, Post-Bebop, Cool, Hard Bop, Avant Garde, Fusion, and Neoclassicism. *Prerequisite: MUS-121 or permission of instructor.*

MUS-308 Jazz Pedagogy (2) O/SI

Study of jazz instruction: rehearsal methods, instruments and rhythm section, programming, improvisation, and small and large ensembles.

MUS-309 Jazz Arranging (2) O/SI

Practical study of the techniques of arranging for small and large ensembles in jazz style including instruments, notation, form, voicings, and part and score preparation. *Prerequisite: MUS-121 or permission of instructor.*

MUS-311 Contemporary Vocal Styles (1) O/SII

Contemporary Vocal Styles is designed to acquaint students with the characteristics of vocal music in popular culture. Attention will be paid to the study of phrasing, diction, and tone color, as well as other performance practices unique to this genre. Equal emphasis will be placed on ensemble and solo singing. The development of music sight-reading skills also will be stressed.

MUS-315 Composition I (1-2) D

Private applied instruction. Original creative projects of moderate length (three to 10 minutes) for solo instrument or voice and/or small ensemble. May be repeated for credit. *Prerequisite: MUS-215 or consent of instructor.*

MUS-322 Tonal Forms (3) A

Classic forms and Romantic tropes, with an emphasis on structural function, large-scale tonal organization, motivic development, and linear connections. Includes some study of 20th-century neoclassicism as it relates to the music of previous eras. *Prerequisite: MUS-223.*

MUS-323 20th-Century Masters (3) O/SII

Intensive study of the innovations of Debussy, Bartók, Stravinsky, and Schoenberg. Systematic writing assignments will synthesize the concepts of nonfunctional harmony, free tonality, atonality, and “emancipation of the

dissonance.” Important works of European composers such as Berg, Hindemith, Messiaen, Shostakovich, and Britten as well as the American masters Ives, Copland, and Carter. *Prerequisite: MUS-223.*

MUS-324 18th-Century Counterpoint (3) O/SI

Study of contrapuntal genres and voice-leading models of the Baroque, with an emphasis on the works of J. S. Bach. Writing assignments in styles under consideration. *Prerequisite: MUS-223.*

MUS-325 Compositional Studies in Electronic Music (2) SII

Introduction to the fundamental techniques used in the creation of musique concrète. Technical knowledge covered may include principles of acoustics, digital and analog synthesis, sampling, and sequencing, as well as audio recording and editing software. Emphasis is placed on composition of art music.

MUS-326 Electronic Music II (3) SI

A more in-depth study of sequencing techniques. Students will gain familiarity with a wider variety of electronic instruments. Students will meet for one hour of class discussion and one hour of private tutoring weekly. Taught in the Music Technology Lab. Students are expected to complete several projects in their area of interest. *Prerequisite: MUS-226.*

MUS-327 Audio Recording II (3) SI

Continuation of the study of components in the recording chain with focus on the principles of multitrack recording/mixing techniques and the use of outboard signal processing equipment. Students will learn the basic operation of hard disk recording and editing as well as the operation of modular digital multitrack recording systems. *Prerequisite: MUS-227.*

MUS-340-345 Private Applied Lessons (1, 2, 4) A

(See MUS-140-145 for specific designations.) *Prerequisites: Music majors only, on successful completion of the sophomore evaluation.*

MUS-351 Music Methods for Elementary Classroom Teachers (2) A

Designed for the classroom teacher, an introduction to music fundamentals with methods, materials, and rationale for integrating music into the elementary curriculum. Skill development in playing classroom instruments, note reading, and singing. *Prerequisite: Junior standing or consent of instructor.*

MUS-362 Advanced Instrumental Conducting I (1) SII

The intellectual and expressive aspects of instrumental conducting using high-quality literature from several musical periods as the basis for this exploration. Additional focus will be on conducting and rehearsal techniques, score reading, score study and preparation, and introduction to the concept of comprehensive musicianship. *Prerequisite: MUS-352.*

MUS-363 Advanced Choral Conducting I (1) SII

The intellectual and expressive aspects of vocal conducting using high-quality literature from several musical periods as the basis for this exploration. Additional focus will be on conducting and rehearsal techniques, score reading, score study and preparation, and introduction to the concept of comprehensive musicianship. *Prerequisite: MUS-352.*

MUS-364 Advanced Instrumental Conducting II (1) SI

A continuation of the work begun in Advanced Instrumental Conducting I and the third year of the conducting curriculum. In addition to providing the opportunity for future conductors to be in front of and work with a real ensemble, the course will deal on a much more advanced level with such topics as score study and internalization, rehearsal psychology, and effective nonverbal communication. *Prerequisite: MUS-362.*

MUS-365 Advanced Choral Conducting II (1) SI

A continuation of the work begun in Advanced Choral Conducting I and the third year of the conducting curriculum. In addition to providing the opportunity for future conductors to be in front of and work with a real ensemble, the course will deal on a much more advanced level with such topics as score study and internalization, foreign languages, rehearsal psychology, and effective nonverbal communication. *Prerequisite: MUS-363.*

MUS-370 Junior Recital (0) A

Required for Music Education and Performance majors. Contingent on approval of faculty committee.

MUS-390 Secondary Choral Methods (3) SII

This course will focus on the theoretical and pragmatic aspects of establishing, building, and maintaining a successful choral music program in the middle, junior high, and senior high school levels. Through weekly observation and assisting of master teachers, students will demonstrate teaching strategies for performing and nonperforming classes based on national and state standards. They will establish a firm philosophical ground for teaching music and acquire a basic knowledge of secondary school budgets, human resources, and technology. *Field experience.*

MUS-391 Secondary Instrumental Methods (3) SII

This course will focus on the theoretical and pragmatic aspects of establishing, building, and maintaining a successful instrumental music program in the middle, junior high, and senior high school levels. Through weekly observation and assisting of master teachers, students will demonstrate teaching strategies for performing and nonperforming classes based on national and state standards. They will establish a firm philosophical ground for teaching music and acquire a basic knowledge of secondary school budgets, human resources, and technology. *Field experience.*

MUS-401 Teaching of Elementary School Music (4) SI

Students refine their philosophy of music education and acquire knowledge and skill in various methodologies for teaching general music at the elementary level (K–8). Through peer teaching and field experience, they demonstrate their ability to teach music content appropriate to the elementary level based on K–12 national music standards. Simultaneously, they demonstrate their understanding of INTASC standards regarding writing lesson plans that take into consideration individual learning styles, the school setting, diverse populations, use of technology, etc. *Field experience.*

MUS-402 Church Music Administration and Special Topics (II) SII

This course will deal with the principles of administration in church music with specific emphasis on resources, recruitment and delegation, and the working relationship with clergy and congregation.

MUS-409 Jazz Styles (2) O/SII

Study of jazz improvisation innovators, styles of improvisation, selection of a performer to transcribe, and a project focusing on a performer of the student's instrument. *Prerequisite: MUS-121 or equivalent.*

MUS-415 Composition II (1–2) D

Private applied instruction. Original creative projects including large and small forms for solo and/or small or large ensemble. May be repeated for credit. *Prerequisite: MUS-315 or consent of the instructor.*

MUS-420 Special Topics in Music (1–3) D

Topics of special interest in music for the music major or non-major that cannot be offered on a regular basis. Students may enroll in this course any number of times as long as the topic is different.

MUS-423 Issues in Analysis and Criticism (3) D

Advanced study of selected masterworks from the past five centuries, with an introduction to a variety of analytical approaches (Réti, Schenker, Tovey, etc.). Related readings chosen from the important thinkers and writers of our own time with regard to musical perception, aesthetics, and criticism (e.g., Meyer, Cone, Rosen, Taruskin) will form a core component of the course. *Prerequisite: MUS-322.*

MUS-424 Contemporary Techniques (2) D

Important compositional trends of the past few decades with attention to the works of Lutoslawski, Crumb, Ligeti, Schwanter, Corigliano, and a wide variety of approaches taken by the musical pioneers of the last 50 years: European serialism, indeterminacy, musique concrète, eclecticism, minimalism, etc. *Prerequisite: MUS-223.*

MUS-428 Music Technology Capstone Project (1) SII

Student will oversee all aspects involved in the successful completion of an independent recording or electronic music project of considerable size and length. Focus will be on pre- and postproduction details of the recording session. Students will meet weekly to audition and discuss each other's work.

MUS-429 Internship (1–3) D

Those students who possess the necessary skills and have faculty approval may elect to pursue an internship experience. The student will spend one to three hours weekly in a commercial recording studio. *Prerequisite: Consent of the instructor.*

MUS-430 Piano Literature and Pedagogy (3) D

Survey of intermediate and advanced piano literature, piano teaching methods, and reference materials available to the pedagogue. Study of teaching/learning styles through observation and practical experience. *Prerequisite: MUS-130 and 140 or equivalent.*

MUS-431 Song Literature (2) D

Survey of the basic repertoire of old Italian arias, German Lieder, French melodies, and American and English art songs with the application of techniques of song study, interpretation, and program building to this literature. *Prerequisites: MUS-121 and 130.*

MUS-433 Instrumental Literature and Pedagogy (1–2) D

Survey of solo and chamber music repertoire for a designated orchestral instrument through the 20th century, with the study of teaching/learning styles through observation and practical experience. *Prerequisites: MUS-130 and one of the following: 341, 342, 343, or 344.*

MUS-434 Survey of Church Music Literature and Hymnody (3) SI

General hymn survey, anthems, psalms, large and small choral forms, mass settings, music of different denominations in the U.S., global church music, and contemporary styles over the expanse of time, from

Gregorian chant to contemporary Christian music. Hymnal sources will include the *Hymnal 1982*, *Methodist Hymnal*, *Lutheran Book of Worship*, and other collections from different world traditions in Asia, Africa, and Latin America.

MUS-435 HON Beethoven/Schubert Honors Seminar (3) O/SI

Study of musical genesis and structure, source writings and historical studies, analytical approaches, and critical interpretations relating to the works of Beethoven and Schubert. *Prerequisite: MUS-223 or permission of instructor.*

MUS-454 Marching Band Techniques (1) A

This course for instrumental music education majors deals with the many aspects of directing a high school marching band. Topics include financial and logistical issues, traditional and corps style charting techniques, equipment and uniforms, and marching fundamentals. High school visitations are an important part of this course.

MUS-455 Instrumental/Choral Arranging (2) SI

Scoring procedures for small and large instrumental and choral ensembles, with emphasis on those used in public schools. *Prerequisite: MUS-223*

MUS-456 Orchestration (2) D

An in-depth and practical study for the professionally oriented composer/arranger/orchestrator of the individual instruments of the orchestra in solo, chamber, and orchestral combinations. *Prerequisite: Permission of the instructor.*

MUS-470 Senior Recital (0) A

Required for Music Education and Performance majors. Contingent on approval of faculty committee.

Nursing Courses

Nursing courses are offered through the School of Nursing. Information about the school and its majors can be found in the section entitled Academic Units.

Associate of Science in Nursing Courses

ANUR-101 Nursing I (7) SI

The concepts and interrelationships of human beings, health, and nursing are introduced and explored. Nursing process is presented as the framework for nursing practice with emphasis on development of critical thinking ability. The associate degree nursing roles of provider of care, manager of patient care, and member of the profession within the framework of contemporary nursing practice are explored. Effective and therapeutic communication skills are introduced, and legal/ethical issues in nursing are explored. Selected resource laboratory and clinical experiences in health care facilities are provided to assist the student in the application of fundamental nursing knowledge and skills while providing direct nursing care for adult patients. *Prerequisites: Admission to the program, ENGL-101, BIOL-103 and 104, MATH-108. Corequisite: ANUR-285 if not previously completed.*

ANUR-102 Nursing II (9) SII

Nursing II focuses on nursing care of patients in childbearing and childrearing families. The interrelationship of the biological, psychosocial, sociocultural, and spiritual dimensions; human needs; life cycle; health; and nursing are developed further. Critical thinking is enhanced through the use of the nursing process and exploration of the legal/ethical dilemmas when caring for patients and their families. Effective therapeutic and technologic communication skills are employed with an emphasis on teaching patients and families. Resource laboratory experiences assist the student with application of nursing knowledge for the attainment of appropriate psychomotor nursing skills. Selected clinical experiences are provided that emphasize the assessment, nursing diagnosis, and planning phases of the nursing process.

Prerequisites: ANUR-101, ANUR-285.

ANUR-201 Nursing III (9) SI

The focus of Nursing III is on nursing care of adult and gerontological patients with common health problems caused by interference with normal body systems functioning. The course is designed to further enhance critical thinking in application of the nursing process for providing total patient care. Effective therapeutic and technological communication skills are emphasized, and various legal/ethical issues are considered. Resource laboratory and clinical experiences focus on attainment of psychomotor skills and multiple nursing actions. The student has increasing opportunity to design and implement an organized plan of care with consideration for time, cost, and resources. *Prerequisites:* ANUR-101, 102, ANUR-285 and BIOL-209.

ANUR-202 Nursing IV (9) SII

The focus of Nursing IV is nursing care of patients of all ages experiencing interference with psychosocial functioning and psychiatric illness, and care of adults with common health needs and problems of complex body systems. Opportunity is provided to develop increasing competence in utilizing the managing of total patient care using the nursing process and emphasizing evaluation. A prioritized plan of care is implemented in collaboration with members of the health care team. The student assumes increasing responsibility for total nursing care for a group of patients utilizing the primary nursing model and entire nursing process. Concepts of graduate nursing practice are presented via theories of management, legal/ethical issues, and current healthcare practice. *Prerequisite:* ANUR-201. *Corequisites:* PSY-120; COMP-150; SOC-101 or 103; and KINS-101 if not previously completed.

ANUR-285 Pharmacology for Health Professions (3) SI/Summer

This course is designed for nursing students and focuses on nursing interventions related to patient care and drug therapy. Principles of drug administration and documentation, appropriate use, therapeutic effects, toxicity, adverse effects, therapeutic and toxic interactions, dosage calculations, and cultural and lifespan considerations are discussed. Applicable oral, parenteral, and topical prototype drugs are presented for each classification. Case studies are used to enhance the application to clinical practice. Course is open to non-nursing majors. (*Cross-listed as NURB-285.*) *Prerequisites:* BIOL-103 and 104, math proficiency through MATH-090. *Open to all students at the University who meet the prerequisites or by permission of the instructor.*

ANUR-299 Independent Studies in Nursing (1–3) D

The student works independently with a selected faculty member to enhance learning in a defined area of nursing studies. *Prerequisite:* Permission of the dean of the School of Nursing.

Bachelor of Science in Nursing Courses

NURB-111* Nursing Freshman Seminar (1) SI

This course is designed for students interested in nursing. The course is divided into two sections. The first section concentrates on an orientation to the University, stress management, study skills, and self-care. The second section is an overview of the profession of nursing, including nursing education and areas of specialization. Teaching/learning strategies include in-class small groups, speakers, out-of-class attendance at University seminars/activities, and participation in a nurse-shadow experience.

**This course does not follow the progression rule of the School of Nursing, which states that all classes with the NURB prefix have a 78 percent as the minimum passing grade (C).*

NURB-225 Nutrition for Health Professionals (2) SI

This foundational course will prepare the student with the basic knowledge of nutrition in a multicultural context. The role of nutrition in promoting and maintaining health is an important factor in the care of the well and ill health care recipient. The course emphasizes the importance of nutrition in the prevention and treatment of various diseases. The roles of communicator, collaborator, teacher, and counselor will be discussed and incorporated in the development of a nutrition health plan. The role of risk factors in the development of diseases will be discussed. Nutrition education strategies will be incorporated throughout the course. *Corequisite: Concurrent enrollment in NURB-231 if not taken prior to current semester (BSN students only).*

NURB-230 Health Assessment I (3) Summer

This foundational course focuses on holistic health and assessment of the individual and families across the lifespan. Emphasis is placed on self-care, communication, growth and development, nursing process, and critical thinking. Introduction to professional nursing issues and practice is integrated throughout the course. Experienced students explore all nursing roles with emphasis on the roles of communicator, caregiver, and advocate. Opportunities to apply nursing roles are provided in a variety of health care environments. *Prerequisite: Admission to AMP. Corequisite: NURB-340.*

NURB-231 Health and Assessment of Individuals and Families I (6) SI

This foundational course focuses on holistic health and assessment of the individual and families across the lifespan. Emphasis is placed on self-care, communication, growth and development, nursing process, and critical thinking. Introduction to professional nursing issues and practice is integrated throughout the course. Students explore nursing roles with emphasis on the roles of communicator, caregiver, and advocate. Opportunities to apply nursing roles are provided in a variety of health care environments. *Prerequisite: Acceptance into the nursing program. Corequisite: Previous completion of or concurrent enrollment in NURB-225.*

NURB-232 Health and Assessment II (5) Summer

This foundational course expands the concepts explored in NURB-230 by comparing wellness and illness of the individual and families across the lifespan. Emphasis is placed on physiologic and psychosocial needs of health care recipients and application of critical thinking and nursing process. The focus of role development includes the roles of caregiver, communicator, advocate, teacher, and leader/manager. Opportunities to compare wellness and illness of health care recipients are provided in a variety of health care environments. *Prerequisites: Successful completion of NURB-225 and 340.*

NURB-232 Health and Assessment of Individuals and Families II (5) SII

This foundational course expands the concepts explored in NURB-231 by comparing wellness and illness of the individual and families across the lifespan. Emphasis is placed on physiologic and psychosocial needs

of health care recipients and application of critical thinking and nursing process. The focus of role development includes the roles of caregiver, communicator, advocate, teacher, and leader/manager. Opportunities to compare wellness and illness of health care recipients are provided in a variety of health care environments. *Prerequisites: Successful completion of NURB-225 and 231. Corequisite: NURB-285.*

NURB-232 (AMP only) Health Assessment II (5) Summer II

This foundational course expands the concepts explored in NURB 230 by comparing wellness and illness of the individual and families across the lifespan. Emphasis is placed on physiologic and psychosocial needs of health care recipients and application of critical thinking and nursing process. The focus of role development includes the roles of caregiver, communicator, advocate, teacher, and leader/manager. Opportunities to compare wellness and illness of health care recipients are provided in a variety of health care environments. *Prerequisites: NURB-230 and 340.*

NURB-285 Pharmacology for Health Professionals (3) SII

This course is designed for nursing students and focuses on nursing interventions related to patient care and drug therapy. Principles of drug administration and documentation, appropriate use, therapeutic effects, toxicity, adverse effects, therapeutic and toxic interactions, dosage calculations, and cultural and lifespan considerations are discussed. Applicable oral, parenteral, and topical prototype drugs are presented for each classification. Case studies are used to enhance the application to clinical practice. Course is open to non-nursing majors. *Prerequisites: BIOL-103 and 104, math proficiency through MATH-090. Corequisite (BSN students only): Previous completion of or concurrent enrollment in NURB-232. Open to all students in the University who meet the initial prerequisites or by permission of instructor, if space permits.*

NURB-325 Community Health Nursing (3) SI

This population-focused course prepares students for entry-level community health nursing and public health nursing practice. Health promotion, risk reduction, and disease prevention are the foci of care. Special emphasis is given to health from global, environmental, and public policy perspectives. Experienced students work with representatives of selected population groups to enhance the health status of a community. Nursing process is guided by the application of nursing and public health theories/models and standards for public health nursing practice. *Prerequisite: NURB-230, 232, and 340. Corequisite: NURB-360 and NUGR-519.*

NURB-330 Methods of Nursing Research (3) SII

An introduction to basic research concepts and the research process as applied to evidence-based practice are presented in this course. Concepts include qualitative and quantitative research, statistics, and scientific writing. Knowledge of the research process and the concepts are demonstrated through writing critiques of published nursing research and a group presentation of an evidence-based project. This course provides the foundation for the reading and understanding of nursing research, incorporating nursing research into nursing practice, and collaboration on research teams. *Prerequisites: All 200-level Nursing courses; NURB-331 and 340. Corequisite: NURB-332.*

NURB-331 Health Promotion Across the Lifespan I (7) SI

Health promotion is explored across the lifespan. A holistic approach is utilized to address the lifelong health requirements of diverse populations in the community. Knowledge of nursing, behavioral, and physical sciences is integrated and applied when providing nursing care. Reproduction, endocrine, and genitourinary body systems are included in the course content. Primary, secondary, and tertiary levels of prevention will guide professional nursing care. Continued development of core competencies, core knowledge, and role development is emphasized. *Prerequisites: All 200-level Nursing courses and BIOL-209. Corequisite: NURB-340.*

NURB-332 Health Promotion Across the Lifespan II (8) SII

Health promotion is explored across the lifespan. A holistic approach is utilized to address the lifelong health requirements of diverse populations in the community. Knowledge of nursing, behavioral, and physical sciences is integrated and applied when providing nursing care. Cardiovascular, respiratory, neurological, and gastrointestinal body systems along with behavioral health are included in the course content. Primary, secondary, and tertiary levels of prevention will guide professional nursing care. Continued development of core competencies, core knowledge, and role development is emphasized. *Prerequisites:* All 200-level Nursing courses; NURB-331 and 340. *Corequisite:* Previous completion of or concurrent enrollment in NURB-330.

NURB-335 Directed Studies in Methods of Nursing Research (1–2) D

This directed study experience is designed for the student who has completed and transferred in a class or classes in statistics and research in another area. The student works with the faculty member who teaches NURB-330 to gain the knowledge specifically needed to critically evaluate nursing research literature. *Prerequisites:* NURB-331 and 340, transfer work in statistics and/or research, and permission of instructor of NURB-330. *Corequisite:* NURB-332.

NURB-340 Pathophysiological Concepts (3) Summer I

This foundational course focuses on holistic responses to changes in the internal and external environment. The concepts of adaptation and maladaptation are studied as they apply to holistic responses of persons across the lifespan. Pathophysiology and clinical manifestations of each disease are studied with emphasis given to defining scientific rationale for nursing actions. *Prerequisites:* Admission to AMP. *Corequisite:* NURB-230.

NURB-340 Pathophysiological Concepts for Professional Nursing (3) SI

This foundational course focuses on holistic responses to changes in the internal and external environment. The concepts of adaptation and maladaptation are studied as they apply to holistic responses of persons across the lifespan. Pathophysiology and clinical manifestations of each disease are studied with emphasis given to defining scientific rationale for nursing actions. *Prerequisites:* Successful completion of all 200-level nursing courses and BIOL-209. *Corequisite:* NURB-331.

NURB-340 (AMP only) Pathophysiological Concepts (3) Summer I (on-line)

This foundational course focuses upon holistic responses to changes in the internal and external environment. The concepts of adaptation and maladaptation are studied as they apply to holistic responses of persons across the lifespan. Pathophysiology and clinical manifestations of each disease are studied with emphasis given to defining scientific rationale for nursing actions. *Prerequisite:* Admission to AMP. *Corequisite:* NURB-230.

NURB-360 Lifespan I (6) SI

Health promotion is explored across the lifespan. A holistic approach is utilized to address the lifelong health requirements of diverse populations in the community. Knowledge of nursing, behavioral, and physical sciences is integrated and applied when providing nursing care. Reproduction, endocrine, and genitourinary body systems are included in the course content. Primary, secondary, and tertiary levels of prevention will guide professional nursing care. Continued development of core competencies, core knowledge, and role development is emphasized. *Prerequisite:* NURB-230, 232, and 340. *Corequisite:* NURB-325 and NUGR-519.

NURB-370 Lifespan II (7) SII

Health promotion is explored across the lifespan. A holistic approach is utilized to address the lifelong health requirements of diverse populations in the community. Knowledge of nursing, behavioral, and physical sciences is integrated and applied when providing nursing care. Reproduction, endocrine, and genitourinary body

systems are included in the course content. Primary, secondary, and tertiary levels of prevention will guide professional nursing care. Continued development of core competencies, core knowledge, and role development is emphasized. *Prerequisite: All Summer I and Semester I courses. Corequisite: NUGR-512 and 518.*

NURB-398 Validation of Practica Skills for the BSN Program (1–3) D

This course is designed to allow new students who are transferring some nursing courses from another nursing program and University of Indianapolis students who have been out of nursing courses for a year to validate their practica skills. Successful completion of this course allows the students to continue their Bachelor of Science in Nursing education at the appropriate level. *Prerequisite: Permission of the dean of the School of Nursing.*

NURB-399 Independent Studies in Nursing (1–3) D

The student works independently with a selected faculty member to enhance learning in a defined area of nursing studies. *Prerequisite: Permission of the dean of the School of Nursing.*

NURB-431 Health Promotion Across the Lifespan III (7) SII

Health promotion is explored across the lifespan. A holistic approach is utilized to address the complex health problems and lifelong health requirements of diverse populations in the community. Musculoskeletal, hematological, and immune body systems along with end-of-life and behavioral health issues are included in course content. Knowledge of nursing and behavioral and physical sciences is integrated and applied when providing nursing care. Continued development of core competencies, core knowledge, and role development is emphasized. *Prerequisite: NURB-440 and 450.*

NURB-435 Lifespan III (6) Summer

Health promotion is explored across the lifespan. A holistic approach is utilized to address the lifelong health requirements of diverse populations in the community. Musculoskeletal, hematology, immunology, human immunodeficiency virus, acquired immunodeficiency syndrome, trauma, violence, personality disorders, anxiety disorders, chemical dependency, eating disorders, multiple organ dysfunction syndromes, and end-of-life issues are included in the course content. Knowledge of nursing and behavioral and physical sciences is integrated and applied when providing nursing care. Continued development of core competencies, core knowledge, and role development is emphasized. *Prerequisite: All 200- and 300-level Nursing courses and NUGR-512, 518, and 519.*

NURB-440 Promoting Healthy Communities (4) SI

This population-focused course prepares students for entry-level community health nursing and public health nursing practice. Health promotion and protection, risk reduction, and disease prevention are the foci of care. Knowledge of global and environmental health is integrated and applied to public health. Special emphasis is given to public health policies, core functions in public health, standards of public health nursing, and the theories/models of public health. Students work with representatives of selected population groups to enhance the health status of a community. The application of nursing process is utilized for directing the care of public health. *Prerequisites: All 300-level nursing courses. Corequisite: NURB-450.*

NURB-450 Managing and Leading in Nursing (4) SI

The role of the nurse as manager and leader is the focus of the course. Traditional leadership and management perspectives are integrated into contemporary nursing trends and practical application in various health care settings. Management and leadership theories, organizational characteristics, management functions, legal, ethical, and cultural issues, data management and informatics, managed care concepts, health care policy,

and professional development are included in the course content. *Prerequisites: All 300-level nursing courses. Corequisite: NURB-440.*

NURB-455 Nursing Leadership (2) Summer

The role of the nurse as manager and leader is the focus of the course. Traditional leadership and management perspectives are integrated into contemporary nursing trends and practical application in various health care settings. Management and leadership theories; organizational characteristics; management functions; legal, ethical, and cultural issues; data management and informatics; managed care concepts; health care policy; and professional development are included in the course content. *Prerequisite: All 200- and 300-level Nursing courses, NUGR-512, 518, and 519. Corequisite: NURB-460.*

NURB-460 Capstone Practicum (3) Summer

Students are provided an opportunity to develop an individualized plan of study in collaboration with faculty. The practicum assists students in synthesizing nursing knowledge and skills, thereby facilitating the transition to professional practice. Roles for development include caregiver, educator, counselor, leader, manager, change agent, political activist, researcher, and advocate. The experienced student will, in collaboration with faculty, develop an overall goal for the practicum, identify learning objectives and strategies, identify and negotiate a practicum experience, and identify a site and preceptor. *Prerequisite: All 200- and 300-level Nursing courses, NUGR-512, 518, and 519. Corequisite: NURB-455.*

NURB-460 Capstone Professional Nursing Practicum (3) SII

Students are provided an opportunity to develop an individualized plan of study in collaboration with faculty. The practicum assists students in synthesizing nursing knowledge and skills, thereby facilitating their transition to professional practice. Roles for development include caregiver, educator, counselor, leader, manager, change agent, political activist, researcher, and advocate. The experienced student will, in collaboration with faculty, develop an overall goal for the practicum, identify learning objectives and strategies, identify and negotiate a practicum experience, identify a site and preceptor. *Prerequisites: All other 400-level nursing courses.*

NURB-460 (AMP only) Capstone Practicum (3) Summer II

Students are provided an opportunity to develop an individualized plan of study in collaboration with faculty. The practicum assists students in synthesizing nursing knowledge and skills, thereby facilitating their transition to professional practice. Roles for development include caregiver, educator, counselor, leader, manager, change agent, political activist, researcher, and advocate. The experienced student will, in collaboration with faculty, develop an overall goal for the practicum, identify learning objectives and strategies, identify and negotiate a practicum experience, identify a site and preceptor. *Prerequisites: All 200 and 300 level Nursing courses, NUGR-512, 518, and 519. Corequisite: NURB-455.*

Nursing Courses for the Registered Nurse

NURN-320 Conceptual Basis of Professional Nursing (5) SI

This transitional nurse-centered course is designed for graduates of diploma and associate degree nursing programs. An overview of the BSN program's major organizational concepts is presented. The concept of community-based care is introduced. Students explore the meaning of professionalism, commitment to personal and professional growth, and professional socialization from a nursing perspective. Students explore all nursing roles with an emphasis on the roles of political activist, advocate, researcher, and leader/manager. The concepts of wellness and illness are explored. Students select and apply nursing concepts in appropriate health care environments. *Prerequisite: Acceptance into the program. Corequisite: NURN-330 and 340.*

NURN-330 Methods of Nursing Research (3) SI

Basic research concepts, the research process, and evidence-based practice are introduced in this course. The differences between qualitative and quantitative research are discussed. Interpretation of statistics commonly found in nursing research is explored. A method of scientific writing is presented. Knowledge of the research process, statistics, scientific writing, and critical thinking is demonstrated through the writing and presentation of critiques of published nursing research. This course provides the foundation for the application of nursing research in nursing practice. *Prerequisite: NURN-320.*

NURN-340 Pathophysiological Concepts for Professional Nursing (3) SI

This foundational course focuses on holistic responses to changes in the internal and external environment. The concepts of adaptation and maladaptation are studied as they apply to holistic responses of persons across the lifespan. Pathophysiology and clinical manifestations of each disease are studied, with emphasis given to defining scientific rationale for nursing actions. *Prerequisites: NURN-320 and NURN-330.*

NURN-416 Health Promotion across the Lifespan (7) SII

Health promotion is explored across the lifespan. A holistic approach is utilized to address the lifelong health requirements of diverse populations in the community. Knowledge of nursing, behavioral, and physical sciences is integrated and applied when providing nursing care. Continued development of core competencies, core knowledge, and role development is emphasized with primary focus on disease prevention/health promotion. *Prerequisites: NURN-320, 330, and 340.*

NURN-420 Faith Community Nursing/Primary Health Ministry (3) A

The Faith Community Nursing/Primary Health Ministry course provides a basis for understanding and initiating the parish nursing role and health ministry programming within a congregational community. Emphasis is placed on discussion and application of theory as well as community assessments. Health promotion, health maintenance, and illness prevention programming integrating faith and health within a congregational community and diverse community partnerships are discussed. A comprehensive paper and health promotion program plan using Healthy People 2010 guidelines are completed. *Requirements: RN with three years' experience, permission of instructor, partnership with sponsoring partner and congregation. RN license must be current.*

NURN-421 Promoting Healthy Communities (4) SII

This population-based course prepares students for entry-level community health nursing and public health nursing practice. Health promotion and protection, risk reduction, and disease prevention are the foci of care. Knowledge of global and environmental health is integrated and applied to public health. Special emphasis is given to public health policies, core functions in public health, standards of public health nursing, and the theories/models of public health. Students work with representatives of selected population groups to enhance the health status of a community. The application of nursing process is utilized for directing the care in public health. *Prerequisites: All 300-level nursing courses, and NURN-416.*

NURN-422 Managing and Leading in Nursing (4) Summer

The role of the experienced nurse as manager and leader is the focus of the course. Traditional leadership and management perspectives are integrated into contemporary nursing trends and practical application in various health care settings. Management and leadership theories, organizational characteristics, management functions, legal, ethical, and cultural issues, data management and informatics, and managed care concepts are included in the course content. *Prerequisites: All 300-level nursing courses, NURN-416 and 421.*

NURN-480 Capstone Professional Nursing Practicum (4) Summer

This course provides graduates of ASN and diploma programs an opportunity to direct their learning in a clinical area of interest. Students will design and implement their own learning experience. The course incorporates adult learning principles using a process-driven approach. *Prerequisites: All nursing courses.*

Elective Course for RNs

The following course is an elective only for RNs who have been in practice for at least three years. It can be taken for BSN or MSN credit or for continuing education.

NURN-420 Parish Nursing Primary Health Ministry (3) D

The Parish Nursing Primary Health Ministry course provides a basis for understanding and initiating the parish nursing role and health ministry programming within a congregational community. Emphasis is placed on discussion and application of theory as well as community assessments. Health promotion, health maintenance, and illness prevention programming are discussed, as well as integrating faith and health within a congregational community and diverse community partnerships. A comprehensive paper and health promotion program plan using Healthy People 2010 guidelines will be completed. *Prerequisites: Current RN license plus three years of experience, permission of the instructor, and partnership with sponsoring partner and congregation.*

Occupational Therapy Courses

The majority of Occupational Therapy courses are open to students admitted to the OT graduate program only. See prerequisites by course.

OT-401 Occupational Behavior (2) SI

The study of development from infancy through adolescence, with emphasis on how social conditions, activity demands (through task analysis), and developmental changes in client factors affect the development of performance skills and contribute to children's engagement and participation in childhood occupations within all contexts. Developmental theories and appropriate models of occupation are emphasized. *Prerequisite: Must be accepted into the Master of Occupational Therapy Program register for this course.*

OT-402 Biomechanical Foundations (2) SII

Students use biomechanical principles to understand human movement and occupational performance. Students use standardized and nonstandardized assessments of joint motion and muscle strength as applied to human occupation. *Prerequisite: Must be accepted into the Master of Occupational Therapy Program to register for this course.*

OT-403 Introduction to Occupational Therapy (2) SI **

This course explores the history of occupational therapy, its underlying philosophy, the meaning and complexity of occupation, and the diverse roles fulfilled by the occupational therapist within a variety of practice and non-practice environments. The influence of legal, ethical, and professional standards on clinical decision-making and service delivery is explored.

OT-406 Research Application 1 (1) SI

Applied research relevant to occupational therapy through location and evaluation of current research evidence, with emphasis on understanding and applying APA writing style, searching skills, and applying basic understanding of quantitative and qualitative research methods to critique research evidence in order to write

a thorough literature review reflective of established research questions. *Prerequisite: Must be accepted into the Master of Occupational Therapy Program to register for this course.*

OT-410 Research Application II (1) SII

Applied research relevant to occupational therapy involving original research projects in small groups with faculty advisor. Skill development in completion of full research proposal including introduction, revision of literature review, methodology, and IRB submission. *Prerequisite: Must be accepted into the Master of Occupational Therapy Program to register for this course.*

OT-412 Occupational Behavior II (3) SII

Study of the development and role of theory within the occupational therapy process. Specific theories of occupation will be analyzed and used to develop an understanding of occupational performance of adults. The impact of contextual factors on occupational engagement, and the role of occupation in influencing health and well-being, are addressed. *Prerequisite: Must be accepted into the Master of Occupational Therapy Program to register for this course.*

OT-415 Neuroscience for OT (3) SII

This course assists students in learning the major structural and functional features of the central nervous system. The course will apply the basic principles of neuroscience and use of these principles along with critical thinking to identify normal and abnormal neurological conditions that affect occupational performance. The implications of neurological disorders in occupational therapy evaluation and intervention are presented. *Prerequisite: Must be accepted into the Master of Occupational Therapy Program to register for this course.*

OT-421 Therapeutic Skills (3) SII

Presents group theory and group dynamics. Teaches basic group and individual client-therapist interaction skills including selecting a theory base, designing groups, writing group protocols, analyzing group activities, implementing specific group techniques, and evaluating progress of group members. Methods of establishing rapport, giving feedback, and employing therapeutic use of self are emphasized. *Prerequisite: Must be accepted into the Master of Occupational Therapy Program to register for this course.*

OT-468 Research Methodology (2) SI

Introduction to clinical research methodology as related to the field of occupational therapy, including qualitative and quantitative research. Skill development in the review of research literature, formulation of problem statements and research questions, research design, and critical analysis of published research. *Prerequisite: Must be accepted into the Master of Occupational Therapy Program to register for this course.*

OT-469 Research Analysis (2) SII

Introduction to qualitative and quantitative data analysis as a part of clinical practice and research. The Statistical Package for the Social Sciences (SPSS) program will be utilized as a platform for providing students with hands-on practical application of data analysis. Students will learn to define, enter, recode, and transform data for qualitative and quantitative data analysis. Using simulated and actual clinical data sets, students will learn descriptive and graphical procedures to describe data and evaluate assumptions necessary for advanced qualitative and statistical data analysis. *Prerequisite: Must be accepted into the Master of Occupational Therapy Program to register for this course.*

OT-471 Conditions in Occupation (4) SI **

This course examines the effects of cognitive conditions, mental health issues, heritable diseases and predisposing genetic conditions, disability, disease processes, and traumatic injury to the individual within the cultural context of family and society on occupational performance. Relationships among disorders, impairments, activity limitations, function/dysfunction, and participation restrictions are emphasized in terms of the impact on occupation. *Prerequisite: Must be accepted into the Master of Occupational Therapy Program to register for this course.*

OT-475 Issues in Practice (1) SI

Students begin the process of professional development as they are introduced to the professional roles and responsibilities of the occupational therapy practitioner, the various practice settings in which occupational therapy practitioners work, and the impact of internal and external systems on occupational therapy practice. Students are required to begin a formal professional development plan in which competency skills in basic clinical and ethical reasoning, professional communication, and professional advocacy are self-assessed, documented, and measured. *Prerequisite: Must be accepted into the Master of Occupational Therapy Program to register for this course.*

OT-476 Issues in Practice II (1) SII

Issues in Practice II builds on the introductory material introduced in Issues in Practice I regarding the professional roles and responsibilities of the occupational therapy practitioner. Professional competencies are discussed and demonstrated in the following areas: basic clinical/critical/ethical reasoning skills; professional written and verbal communication; and introductory advocacy, collaborative, and supervision skills within occupational therapy. Students participate in Level I Fieldwork experiences in which these skills are role modeled and that enable the demonstration of these professional competencies. *Prerequisite: Must be accepted into the Master of Occupational Therapy Program to register for this course.*

OT-480 OT Process I (2) SII

Gain knowledge of, select, administer, and interpret standardized and non-standardized screening and assessment tools used to evaluate occupational performance for the planning of intervention and discharge for occupational therapy consumers from a variety of populations across the life span. Theories, models of practice, frames of references, and evidence-based practice will guide decision making throughout the evaluation process. *Prerequisite: Must be accepted into the Master of Occupational Therapy Program to register for this course.*

***Segments of course maybe delivered in an online format*

Organizational Leadership Courses

The organizational leadership courses are offered through the School for Adult Learning and are available only to students admitted to that school. Information about the School for Adult Learning and its majors can be found in the section entitled Academic Units.

ORGL-302 Introduction to Leadership Theories and Models (3) A (Accelerated)

The course will introduce students to current theories and models of leadership, including traits, situational, functional, and transformational. The class emphasizes that leadership is a lifelong process and recognizes that responsible leaders maintain the highest possible standards of ethics. *Prerequisite: MGT-281.*

ORGL-304 Profile of a Leader (3) A (Accelerated)

The focus of study is on characteristics of effective leadership. Personal traits or characteristics that bring credibility to the leader are presented by lecture, discussion, role-playing, case study, and audiovisual presentations. The ethical component to leadership is emphasized. *Prerequisite: ORGL-302.*

ORGL-306 Behaviors of Effective Leadership (3) A (Accelerated)

The focus of study is on behaviors of effective leadership including effective decision-making, role-modeling, strategic planning, crisis management, conflict management, negotiation, team building, mentoring, lifelong learning, and critical thinking. Various teaching/learning methods are used to support the focus. *Prerequisite: ORGL-304.*

ORGL-308 Data Management (3) A (Accelerated)

This course provides the student a nontechnical introduction to data acquisition and analysis and provides an opportunity to employ the use of qualitative and quantitative data in decision-making and strategic planning. *Prerequisite: ORGL-306.*

ORGL-404 Project Management (3) A (Accelerated)

This course is designed to introduce students to the concepts and process of project management. The course will include the project manager's role, defining goals and objectives, ownership, scheduling and planning, executing, and monitoring the project. *Prerequisite: ORGL-306.*

ORGL-405 Quality Management (3) A (Accelerated)

This course is designed to introduce students to the background of quality management in the business setting. Students will become fluent in the key terms and concepts of total quality management and will be introduced to the work of recognized leaders in the field. Case studies will be used to acquaint students with the application of total quality management skills. *Prerequisite: ORGL-306.*

ORGL-406 Change Management (3) A (Accelerated)

This course is designed to introduce students to change models and the change process in contemporary business. Students will learn about factors necessary to effect change in organizations and about the impacts of political, economic, and demographic factors on employees. Students will gain experience in conflict management and conflict resolution and will be introduced to the meaning of cultural competence. *Prerequisites: ORGL-404 and ORGL-405.*

ORGL-410 Excellence in Leadership (3) Y (Accelerated)

This course provides a capstone experience for students majoring in organizational leadership. Students will be given case studies that integrate previous leadership challenges. Students will be expected to apply their knowledge from previous classes to demonstrate their learning. Basic concepts will not be reintroduced. *Prerequisite: ORGL-406.*

Philosophy Courses

Philosophy courses are offered by the Philosophy and Religion Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

PHIL-101 Introduction to Philosophy (3) A

Students explore selected philosophical problems, utilizing a wide range of texts from ancient through contemporary sources. One major objective is to investigate what philosophy itself is.

PHIL-109 Philosophy Freshman Seminar (1) S1

General orientation to the philosophy curriculum. Attention is given to general concepts, academic literature, library skills, and basic writing skills in this major. Required of all freshman departmental majors. (*Cross-listed with REL-109.*)

PHIL-110 Critical Thinking (3) A

Critical Thinking provides instruction for students to develop the practical skills necessary to think clearly and rationally. Areas covered include argument analysis, informal fallacies, deductive inference, inductive generalization, analogical reasoning, and explanation.

PHIL-130 Honors Philosophy (3) SI

A selective study of major philosophical ideas and attitudes expressed in contemporary literature, films, and popular culture.

PHIL-201 Ethics (3) A

Ethics examines standards of conduct and the responsibilities they entail. Ascertaining these moral demands depends on sound strategies for justifying the theories that generate them. Hence, issues in metaethics, normative ethics, and moral psychology are discussed. Readings include treatments of current moral problems.

PHIL-215 Aesthetics (3) O

This course introduces students to fundamental philosophical problems in the fine arts and humanities (art, music, literature, theatre) with special attention given to the nature of artworks and character of aesthetic experience. Core questions the course will examine include: What is the aesthetic? What makes something an artwork? How can we adequately judge or interpret artworks? Can artworks have moral and political implications, and if so, how should they affect our judgment of those works?

PHIL-230 Issues in Applied Ethics (3) Y

This course focuses on one or more of the moral and social issues that confront contemporary society (i.e., affirmative action, environmental destruction, treatment of animals, racism/sexism, abortion), or on the ethical issues that arise within a given profession (e.g., the medical, mental health, or business professions). The topic is selected by the instructor, who considers student interests in determining the nature of the course in a given semester.

PHIL-240 Social and Political Philosophy (3) N

What are the fundamental principles of political life? What is the proper role of government in the life of society? Where should the line be drawn between individual freedom and social control? This course is about how these and related questions have been addressed by political philosophers in the Western tradition. Although the

main focus is on contemporary views (e.g., those of Rawls, MacIntyre, and Sandel), some attention is given to the historical antecedents of these views (e.g., those of Plato, Locke, Rousseau, Mill, and Marx).

PHIL-260 Asian Philosophy (3) N

An introduction to some of the most important contributions to human thought by Asian philosophers in the Classical period. The course will focus primarily on Chinese philosophy and its two most influential movements: Confucianism and Daoism. Some attention will be paid to rival philosophical schools that flourished during this period (e.g., Legalism, Mohism). The study of these movements will enable participants in the course to engage in a comparative study of Western and non-Western philosophy. *(This course will satisfy the cross-cultural requirement in the General Education Core.)*

PHIL-299 Issues in Philosophy (3) N

A selected philosopher, tradition, or issue of philosophic interest constitutes the content of the course. The topic is selected by the instructor, who considers student interests in determining the nature of the course in a given semester.

PHIL-301 Ancient and Medieval Philosophy (3) O

This survey of philosophy from the pre-Socratics through the 15th century examines the birth of classical philosophy, its development, and its amalgamation into the great religious traditions of the West. Readings come from such pivotal figures in the history of Western ideas as Plato, Aristotle, Augustine, Aquinas, and Ockham. *Prerequisite: One prior Philosophy course or consent of instructor.*

PHIL-302 Modern Philosophy (3) O

With the breakdown of the medieval synthesis and rise of modern science, philosophy would never again look the same. Investigating the issues that separated the rationalists, empiricists, and idealists, this course focuses on the birth of modern philosophy in the 16th, 17th, and 18th centuries. Readings include works from Descartes, Leibniz, Spinoza, Locke, Berkeley, Hume, and Kant. *Prerequisite: One prior Philosophy course or consent of instructor.*

PHIL-320 Philosophy of Mind (3) N

Problems that surround the relationship of the mind and body constitute the core of Philosophy of Mind. Students study each of the major solutions that have been offered in response to these problems. In addition, the course includes discussion of such related topics as artificial intelligence, death, dreams, the status of animals, creativity, and action theory. *Prerequisite: One prior Philosophy course or consent of instructor.*

PHIL-330 Philosophy of Science (3) N

The analysis of scientific rationality is the overarching issue in Philosophy of Science. It includes an examination of the views of the logical positivists and their critics. The course also deals with the relation of the history of science to the philosophy of science and of the various sciences to one another. It includes the analysis of such fundamental scientific concepts as theory, explanation, and causality. *Prerequisite: One prior Philosophy course or consent of instructor.*

PHIL-335 Philosophy of Law (3) N

A survey of central topics in jurisprudence, including the nature of legal interpretation, the relationship between law and morality, moral justifications for legal punishment, the nature of legal responsibility, and the moral status of legal interference (e.g., censorship laws). *Prerequisite: One prior Philosophy course or consent of instructor.*

PHIL-340 Philosophy of Religion (3) O

Students study such issues as the existence of God, the nature and destiny of persons, the relation of faith and reason, and the nature and diversity of religious experience. These issues include such traditional problems as those concerning evil, free will, and religious language. (*Cross-listed as REL-340.*) *Prerequisite: One prior Philosophy course or consent of instructor.*

PHIL-350 Christian Ethics (3) SII

In this course we will explore some of the concerns and interests that Christian ethicists have in common with secular philosophers, including the nature of deontological, utilitarian, and virtue ethics. Also explored will be some of the many ways that Christian ethics has its own distinctive set of concerns, especially ethical decision-making's relations with scripture and doctrine. (*Cross-listed as REL-310.*)

PHIL-360 Symbolic Logic (3) D

This course introduces the basic ideas and methods of modern symbolic logic. Students will learn the formal systems of propositional and predicate logic so that they are both able to accurately represent reasoning as it occurs in ordinary discourse and evaluate that reasoning. *Prerequisite: PHIL-110 or consent of instructor.*

PHIL-370 Kant and His Legacy (3) N

A close study of Immanuel Kant's theory of knowledge and philosophy of mind, as well as reactions to his work as found in one or more of the following philosophical traditions: the analytic tradition (e.g., Frege, Russell, and Kripke), the pragmatist tradition (e.g., Peirce, James, and Dewey), and the continental tradition (e.g., Hegel, Husserl, Heidegger, and Sartre). *Prerequisite: One prior Philosophy course or consent of instructor.*

PHIL-410 Issues in Philosophy (3) N

A selected philosopher, tradition, or issue of philosophic interest constitutes the content of the course. The topic is selected by the instructor, who considers student interests in determining the nature of the course in a given semester. *Prerequisite: One prior philosophy course or consent of instructor.*

PHIL-420 Metaphysics and Epistemology (3) N

A survey of historical and contemporary answers to some of the central questions in metaphysics and epistemology. Possible topics in metaphysics include reality, existence, substance, necessity and possibility, causation, space and time, universals and particulars, and free will. Possible topics in epistemology, or the philosophical study of knowledge, include truth, belief, perception, justified belief, and knowledge. *Prerequisite: One prior Philosophy course or consent of instructor.*

PHIL-430 Advanced Ethical Theory (3) N

An in-depth examination of select topics in metaethics and normative ethics. Possible topics in metaethics include moral truth, skepticism about morality, moral disagreement, and topics concerning moral psychology. Possible topics in normative ethics include detailed evaluations of consequentialism, deontology, and virtue ethics. *Prerequisite: One prior Philosophy course or consent of instructor.*

PHIL-440 Philosophy of Language (3) N

This course is an intensive survey of some of the main problems and theories in the contemporary philosophy of language. Among the issues that will be discussed include meaning, reference, attributions of attitudes, proper names, descriptions, and indexicals. Though many readings will be taken from contemporary philosophers (e.g., Saul Kripke, David Kaplan, John Perry, and Hilary Putnam), we will begin our discussions by examin-

ing some of the historically important attempts at resolving these problems (e.g., the work done by J. S. Mill, Gottlob Frege, and Bertrand Russell.) *Prerequisite: One prior Philosophy course or consent of instructor.*

Physical Therapist Assistant

PTA-203 Professional Issues I

This course will introduce students to basic information necessary to become a physical therapist assistant. An overview of the American Physical Therapy Association and brief history of the profession of physical therapy, including role delineation between a physical therapist and a physical therapist assistant, will be covered. The scope of practice and laws governing physical therapy practice will be included. Medical terminology, documentation, universal precautions, and professional behaviors are among the topics that will be covered. *Prerequisite: Admission into the Physical Therapist Assistant program.*

PTA-204 MS I: Functional Anatomy and Kinesiology

This course provides an introduction to normal functional anatomy and kinesiology and serves as a foundation on which future physical therapist assistant classes are based. *Prerequisite: Admission into the Physical Therapist Assistant program.*

PTA-205 MS I: Patient Care Orientation

Basic patient care techniques such as patient education, bed mobility, transfers, and gait training are taught in lecture, demonstration, and laboratory formats. An overview of the basic components of medical equipment, wheelchairs, and orthoses is given. The appropriate utilization of such equipment is practiced during simulated patient care. *Prerequisite: Admission into the Physical Therapist Assistant program.*

PTA-206 Cardiopulmonary Rehabilitation

This course is an introduction to the cardiovascular and pulmonary systems in the human body as these systems relate to physical therapy. Wellness and prevention of cardiopulmonary conditions are addressed. The purpose and procedures for measuring vital signs are covered. Cardiovascular conditions and pulmonary disorders are introduced. Pulmonary hygiene is included. Information will be presented in lecture and laboratory settings. *Prerequisite: Admission into the Physical Therapist Assistant program.*

PTA-223 Integumentary Rehabilitation

This course provides an introduction to the human integumentary system as it relates to the physical therapist assistant. Medical and rehabilitation interventions are presented in relation to inflammation, skin conditions, burns, and wounds, as well as circulatory and edematous conditions involving the integumentary system, utilizing lecture and laboratory formats. *Prerequisites: Successful completion of ENGL-101, BIOL-103, CHEM-103, PTA-203, PTA-204, PTA-205, PTA-206.*

PTA-224 MS II: Physical Agents I

The physiology and psychology of pain are presented as a foundation relating the use of a variety of therapeutic agents for the physical therapist assistant. The basic physics of electromagnetic radiation is presented. Therapeutic interventions covered in this class include superficial heat, cryotherapy, traction, and ultrasound. Introductory massage and soft tissue and joint mobilization techniques are practiced. Information is presented in lecture and laboratory settings. *Prerequisites: PTA-203, 204, 205, 206.*

PTA-225 MS II: Therapeutic Exercise I

This course presents the therapeutic techniques of ROM, manual muscle testing, and muscle length testing. Treatment progressions also are introduced. Subsequent courses in the curriculum will build on the principles and techniques presented in this course. *Prerequisites: PTA-203, 204, 205, 206.*

PTA-262 NMI: Pathophysiology

This course provides an introduction of common pathologies treated by physical therapist assistants. Medical terminology is applied in the context of these diseases and disorders. An introduction to diagnostic procedures is included. Medical interventions and rehabilitation interventions are presented in relation to the pathological conditions covered within this course. *Prerequisites: ENGL-101, BIOL-103, CHEM-103, PTA-203, 204, 205, 206.*

PTA-243 Professional Issues II

This course presents professional issues and the relevance to clinical practice. Lifespan issues, cultural diversity, and gender and religious issues are examined in light of the current health care environment. Students are introduced to contemporary trends in the healthcare industry such as reimbursement, quality assurance, and administration. Professional skills such as résumé development, interviewing, continued education, and further professional development will be discussed. *Prerequisites: PTA-203, 204, 205, 206, 223, 224, 225, 262, and the general education courses prior to this semester.*

PTA-244 MS III: Physical Agents II

The basic physics of electromagnetic radiation and electricity are presented. Specific therapeutic intervention techniques covered in this class include electrical stimulation, EMG, and biofeedback. Compression, hydrotherapy, and aquatic therapy also are presented. *Prerequisites: PTA-203, 204, 205, 206, 262, 223, 224, 225, 291 and the general education courses prior to this semester.*

PTA-245 MS III: Therapeutic Exercise II

This course builds on fundamental principles established in Functional Anatomy. Principles and scientific basis of various components of therapeutic exercises are presented in a lecture and laboratory format. Exercise techniques and functional progressions that are performed by physical therapist assistants are introduced. Therapeutic exercise components covered in this class include strength, muscular and cardiovascular endurance, flexibility, stabilization, motor control, and proprioception. *Prerequisites: PTA-203, 204, 205, 206, 262, 223, 224, 225, 291, and the general education courses prior to this semester.*

PTA-246 Neuromuscular Rehabilitation II

This course provides a lifespan overview of normal motor development, followed by introduction to common adult neurological pathologies. Students are introduced to movement analysis, patient handling, and treatment intervention. Lecture, video, and laboratory formats will be utilized. *Prerequisites: PTA-203, 204, 205, 206, 223, 224, 225, 262, 291, and the general education courses prior to this semester.*

PTA-263 Neuromuscular Rehabilitation III

Information from previous courses is applied to the treatment intervention for patients with neurological dysfunctions. Physical therapy interventions for persons with traumatic brain injury, spinal cord injury, cerebrovascular accident, and other neurological conditions are covered. The pathophysiology of developmental anomalies common to the pediatric physical therapy setting also is presented along with age-appropriate intervention approaches. Movement analysis, handling techniques, and treatment interventions over the

lifespan will be developed further in lecture, video, and laboratory formats. *Prerequisites: PTA-203, 204, 205, 206, 223, 224, 225, 243, 245, 246, 262, and the general education courses prior to this semester.*

PTA-264 Musculoskeletal Rehabilitation IV

Specific disorders of the hip, knee, ankle, shoulder, elbow, wrist and hand, and axial skeleton will be presented. Concepts learned in previous courses will be integrated into the comprehensive treatment of patients with musculoskeletal pain and dysfunctions. *Prerequisites: PTA-203, 204, 205, 206, 262, 223, 224, 225, 291, and the general education courses prior to this semester.*

PTA-291 Clinical Education I

Students participate in a five-week clinical rotation in a facility affiliated with the PTA program. Emphasis is on demonstration of basic clinical skills. *Prerequisites: PTA-203, 204, 205, 206, 223, 224, 225, and 262.*

PTA-292 Clinical Education II

Students participate in a seven-week clinical rotation in a setting affiliated with the PTA program. This rotation builds on the skills acquired during the first clinical experience and emphasizes beginning acquisition of entry-level skills. *Prerequisites: PTA-203, 204, 205, 206, 223, 224, 225, 262, 243, 244, 245, 246, 263, and 264.*

PTA-293 Clinical Education III

Students participate in a seven-week clinical rotation in a setting affiliated with the PTA program. This rotation builds on skills acquired during the first two clinical experiences and emphasizes demonstration of entry-level clinical skills. Students will return to the classroom for two days to discuss clinical and overall curriculum experience and process professional issues in physical therapy. *Prerequisites: PTA-203, 204, 205, 206, 223, 224, 225, 262, 243, 244, 245, 246, 263, and 264.*

Physics Courses

Physics courses are offered by the Physics and Earth-Space Sciences Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

PHYS-100 Elements of Chemistry and Physics (3) A

Elements of Chemistry and Physics is a one-semester integrative chemistry and physics course intended for students who wish to learn fundamental principles relating to the structure of matter, energy transformations, motion of objects and waves, and the forces of nature. Students will learn these fundamentals through active participation in “hands-on, minds-on” group activities. While doing the activities, the students will demonstrate scientific habits and gain insight into the nature of science. May be taken for chemistry or physics credit. (Cross-listed as CHEM-100.) Elements of Chemistry and Physics may not count for a chemistry or physics major or minor. *Prerequisite: Math proficiency through MATH-105.*

PHYS-103 Introduction to Physics (4)

Introduction to physics as applied to the allied health fields, primarily for the physical therapist assistant program. Topics covered include basic mechanics (including Newton’s Laws), energy, momentum, waves, electricity, magnetism, optics, and radioactivity. Fundamental principles will be presented along with applications related to human health and physiology. Five hours per week (lecture and lab combined). *Cannot count toward a physics major or minor. Cannot be substituted for PHYS-150/155 or 160/165. Students must have working knowledge of algebraic fundamentals and the construction and interpretation of graphs, as found in the course description for MATH-105. MATH-108 will not count as a prerequisite.*

PHYS-110 Freshman Seminar (1) SI

A general orientation to the University of Indianapolis for physics and engineering majors, including an introduction to literature and library resources in physics and engineering. *Required of all freshman physics and engineering majors.*

PHYS-150 General Physics I (2) A

Kinematics, dynamics, statics, momentum, energy, rotational motion, heat, wave motion, and sound. Applications in various disciplines. Students who have taken PHYS-100 may not receive double credit for both PHYS-100 and PHYS-150. Two hours of lecture per week. Students must register for PHYS-155 concurrently. Prerequisites should have been completed within one to two years (preferably one year) before taking this course. *Prerequisite: MATH-180 with a grade of C- or better (C+ or better preferred) or consent of department.*

PHYS-153 General Physics I, Calculus-Based (2) SII

Contents are the same as for PHYS-150; however, the course is designed for students whose background includes at least Calculus I (MATH-190) or equivalent, taken previously (within one to two years) or concurrently. The course will apply techniques of calculus to the subject matter. Course includes two hours of lecture per week. Students must register for PHYS-155 concurrently. *Prerequisite: MATH-190 (may be concurrent, check with instructor) with a grade of C- or better (C+ or better preferred), or consent of department.*

PHYS-155 General Physics I Lab (2) A

A laboratory experience to be taken concurrently with either PHYS-150 or 153. Four lab contact hours per week.

PHYS-160 General Physics II (2) A

Electricity, magnetism, geometrical optics, some introduction to physical optics and to modern physics. Two hours of lecture per week. For students whose background does not include calculus. Students must register for PHYS-165 concurrently. Prerequisites should have been completed within one to two years (preferably one year) before taking this course. *Prerequisites: PHYS-150 or 153 and MATH-180, or consent of department.*

PHYS-163 General Physics II, Calculus-Based (2) SI

Contents are the same as for PHYS-160; however, the course is designed for students whose background includes at least Calculus II (MATH-191) or equivalent, taken previously (within one to two years) or concurrently. The course will apply techniques of calculus to the subject matter. Course includes two hours of lecture per week. Students must register for PHYS-165 concurrently. *Prerequisites: PHYS-153 and MATH-191 (may be concurrent), or consent of department.*

PHYS-165 General Physics II Lab (2) A

A laboratory experience to be taken concurrently with either PHYS-160 or 163. Four lab contact hours per week.

PHYS-207 Astronomy (3) SI

Introductory course concentrating on three primary areas: (1) observational techniques, (2) solar system astronomy, (3) stellar and galactic astronomy. During each portion of the course there is a laboratory emphasis on observation and hands-on learning. Some observation is scheduled every clear night that the course meets, using the University's Noblitt Observatory in Lilly Science Hall. Most years, the class takes an additional field trip to a local institutional observatory (e.g., the Link Observatory) or uses the University's portable telescope. *(Cross-listed as ESCI-207.) Prerequisite: Math proficiency through MATH-105 or consent of department.*

PHYS-230 Laboratory Instrumentation I (2) SI

Properties of electronic components such as diodes, transistors, filters, and integrated circuits, and their uses in various digital and analog circuits; familiarization with laboratory instruments such as multimeters and oscilloscopes. Two two-hour laboratories. *Prerequisites: PHYS-160 or 163 and MATH-180, or consent of department.*

PHYS-250 Modern Physics (5) SI

Special relativity, wave and particle aspects of matter and electromagnetic waves, atomic and nuclear structure, nuclear reactions, and elementary particles. Four lectures and one two-hour laboratory. *Prerequisites: PHYS-160 or 163, and MATH-191 (may be concurrent), or consent of department.*

PHYS-270 Physics and Engineering Seminar (.5) SI

Builds on the foundation of Freshman Seminar. Includes sequenced reading, writing, and research proposal formulation projects and presentations. *Required of all physics and engineering majors in each of sophomore, junior, and senior years.*

PHYS-280 Scientific Computing I (3) SII

Scientific problem solving with computers that will include an introduction to the computer languages and methods used in scientific computing. This will include mathematical modeling of simple systems and the development of numerical estimates of their solution. Other numerical techniques such as estimation of derivatives and integrals, interpolation, extrapolation, and curve fitting will be presented. Applications of modeling to diverse physical and biological systems will be explored. Introduction to various simple forms of visualization will be used to aid interpretation of calculated results. *Prerequisites: MATH-191 (may be concurrent), or consent of department.*

PHYS-310 Scientific Computing II (3) SII

Extension of PHYS-280 to include more complex situations, including many-body and continuous physical and biological systems. Application using both Fourier and finite element systems. Introduction to Monte Carlo, simulated annealing, and Markov techniques. Exploration of more advanced types of visualization. *Prerequisite: PHYS-250, PHYS-280.*

PHYS-330 Optics (3) O/SII

Geometrical, physical, and modern optics. Three lecture hours. *Prerequisites: PHYS-250 and 310, MATH-270 and 330, or consent of department.*

PHYS-360 Dynamics (3) O/SI

Kinematics and kinetics of particles and rigid bodies, work and energy, motion under a central force, simple harmonic motion, and introduction to Lagrange's and Hamilton's equations. Three lecture hours. *Prerequisites: PHYS-250 and 310 (may be concurrent), MATH-270 and 330, or consent of department.*

PHYS-370 Physical Chemistry I (3) SI

This course provides an introduction to the study of heat and energy and their influence in chemical and physical changes. Particular attention will be given to the concept of chemical equilibrium. Application of mathematical models will be extensive. May be taken for chemistry or physics credit. *(Cross-listed as CHEM-370.) Prerequisites: CHEM-160, MATH-190, and PHYS-160/161 or 163/165, or consent of instructor.*

PHYS-375 Physical Chemistry Laboratory (2) SI

This laboratory course is designed to give junior and senior chemistry students practice with designing experiments, collecting and analyzing data, and presenting experimental results in a written format. Students in this course will be required to complete a series of laboratory projects. For each project, the student will design an experiment, complete the experiment, and write a written report. *Cross-listed as CHEM-375.* *Prerequisites: CHEM-160, MATH-191, and PHYS-160/165 or 163/165, or consent of instructor.*

PHYS-380 Physical Chemistry II (3) SII

This course builds on the concepts mastered in CHEM-370 and extends the study of thermodynamics into electrochemistry and the study of chemical kinetics. In addition, the fundamentals of quantum mechanics will be discussed and applied to concepts of chemical bonding and molecular behavior. *(Cross-listed as CHEM-380.) Prerequisite: CHEM-370, or consent of instructor.*

PHYS-390 Electricity and Magnetism (3) O/SI

Electric circuits and electric and magnetic fields. Three lecture hours. *Prerequisites: PHYS-250 and 330 (may be concurrent), MATH-270 and 280, or consent of department.*

PHYS-400 Special Topics in Physics (1–3) D

The study of a selected area in physics not covered by the established curriculum. These subjects are timely or focused toward student and market needs. Topics will be announced prior to semester registration. A student may receive credit more than once for different topics.

PHYS-410 Advanced Physics Laboratory (2–5) SII

Advanced experiments in mechanics, optics, electricity, magnetism, and/or modern physics; report writing and techniques of data analysis. *Prerequisites: MATH-270 and 330, PHYS-310, and 12 hours selected from PHYS-250, 330, 360, or 390, or consent of department.*

PHYS-415 Physical Measurement I (2) O/SII

The course is designed so that the student can experience hands-on applications of the physics discussed in PHYS-360 Dynamics and PHYS-460 Quantum Mechanics. Not offered the same year as Physical Measurements II. Four laboratory contact hours per week. *Prerequisites: PHYS-360 and 460 (may be taken concurrently).*

PHYS-420 Physical Measurement II (2) O/SII

The course is designed so that the student can experience hands-on applications of the physics discussed in PHYS-390 Electricity and Magnetism and PHYS-330 Optics. Not offered the same year as Physical Measurements I. *Prerequisites: PHYS-330 and 390 (may be taken concurrently).*

PHYS-460 Quantum Mechanics (3) O/SII

Experimental foundations of the Schrodinger equation and its applications to simple physical systems. Three lecture hours. *Prerequisites: PHYS-250 and 310, MATH-270 and MATH-330, or consent of department.*

PHYS-490 Senior Research (1–3) D

Introduction to the procedures and practices of scientific research. The student will be expected to pose a problem, suggest procedures to be used to solve the problem, and then work toward its solution. A final written report is required. *Prerequisite: Senior standing or consent of department.*

Political Science Courses

Political science courses are offered through the History and Political Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

PSCI-101 American National Government (3) A

Study of the federal government in its origins and development. Attention is given to political, economic, and philosophical factors in the formation of the Constitution and the role of the federal government in the present American system.

PSCI-105 State and Local Government (3) A

Study of the role of state and local government in the American political and constitutional system.

Courses numbered 300 or above are not open to freshmen.

PSCI-301 Research Design and Methods (4) D

Study of the scientific method as applied to political and social phenomena. Topics covered include the nature of science as applied to politics; the basics of the scientific method; measurement and research design; how to work with quantitative data and statistics; and a basic range of statistical methods for analyzing data. Students will design a research project to answer an empirical question about political behavior and apply appropriate data and methods to their hypothesis to reach a conclusion. *This course is not open to freshmen. Prerequisites: ENGL-102 and PSCI 101 or IREL 101, or consent of instructor.*

PSCI-323 Public Administration (4) O

Study of the structure and function of public bureaucracy in the United States. The course focuses on the executive branch of the federal government, although comparisons will be made with state and local government. *This course is not open to freshmen. Prerequisite: ENGL-102.*

PSCI-356 Political Theory (4) O

Study of major concepts and systems of political theory with emphasis on the history of political thought. *This course is not open to freshmen. Prerequisite: ENGL-102.*

PSCI-444 Constitutional Law I: Powers of Government (4) O

Students will learn to read, brief, analyze, and interpret U.S. Supreme Court decisions dealing with the power of judicial review, the separation of powers, federalism, and interstate commerce. Students also will participate as attorneys or justices in a moot court that hears and decides an actual case being appealed to the Supreme Court. *This course is not open to freshmen. Prerequisite: ENGL-102.*

PSCI-445 Constitutional Law II: Civil Rights and Liberties (4) O

Students will learn to read, brief, analyze and interpret U.S. Supreme Court decisions dealing with First Amendment freedoms; the procedural rights of the Fourth, Fifth, and Sixth amendments; and with the Due Process and Equal Protection clauses of the Fourteenth Amendment. Students also will participate as attorneys or justices in a moot court that hears and decides an actual case being appealed to the Supreme Court. *This course is not open to freshmen. Prerequisite: ENGL-102.*

PSCI-450 Internship in Political Science (1–15) D

Work experience in politics and government (for example, with government offices, other public agencies, law offices, lobbying organizations, or political campaigns). Students are supervised on a day-to-day basis by the office staff and report to the instructor on a regular basis. Internships may be arranged during Semester I or II or in the summer. Up to eight hours of credit may be applied toward a major or minor; additional hours will be credited as elective. *This course is not open to freshmen. Prerequisite: PSCI-101 for internships related to the federal government; PSCI-105 for internships related to state or local government. Prerequisite: ENGL-102.*

PSCI-480 Special Topics in Political Science (1–4) D

Comprehensive examination of a political science topic not covered in depth in another advanced political science course. Topics vary, and students may repeat the course for credit if the topic is different. *This course is not open to freshmen. Prerequisite: ENGL-102.*

Psychology Courses

Psychology courses are offered through the School of Psychological Sciences. Information about the school and its majors and minors can be found in the section entitled Academic Units.

PSY-100 Orientation to Psychology (1) A

Students are acquainted with career options, departmental resources, requirements in the major, research style, professional practice, and ethical principles in psychology. They also are introduced to principles of scientific writing, methods of inquiry, and other conventions in the field. Students should complete this course in their freshman or sophomore year, immediately after they declare a psychology major.

PSY-120 Introduction to Psychology (3) A

Introduction to the scientific study of human behavior. Topics include research methods in psychology; biological bases of behavior; sensation and perception; memory; human development; personality; social psychology, and psychological disorders. Historical background, major theoretical approaches, and research findings are highlighted in each area.

PSY-205 The Psychology of Personal Adjustment (3) On Demand

This course investigates how normal functional behavior develops and is sustained. Topics include intimacy and relationships, self-esteem, self-deception, motivation, altruism, tolerance of diversity, and pro-social behavior. The course is not merely a personal growth class but uses critical thinking skills and empirical research, as well as the student's personal experience, as tools for understanding healthy behavior.

PSY-215 Social Psychology (3) Y

Scientific study of how social situations influence the thoughts, feelings, and behaviors of individuals. Topics covered include attitude formation and change, conformity, aggression, pro-social behavior, interpersonal attraction, the formation and maintenance of relationships, group structure and dynamics, and social perception. *Prerequisite: PSY-120 recommended.*

PSY-220 Child and Adolescent Development (3) A

Survey of the major theoretical perspectives and research findings in the study of prenatal development, infancy, childhood, and adolescence. Covers the description and explanation of cognitive, language, personality, social, emotional, and physical development during these age periods. This course also acquaints students with current controversies, research methods, and applied issues in developmental psychology. *Prerequisite: PSY-120.*

PSY-230 Brain and Behavior (3) Y

Survey of the biological bases of behavior. Topics include structure of the nervous system; neural function; neurotransmitters; and brain structures underlying behaviors such as sensation, sleep, memory, and language. *Prerequisite: PSY-120.*

PSY-240 Abnormal Psychology (3) A

Survey of the major forms of abnormal behavior. Topics include the symptoms and diagnostic criteria for various types of mental illness, theories about how different types of abnormal behavior develop and are maintained, and various therapeutic approaches used in treatment of mental disorders. Current research and empirical findings related to abnormal behavior are presented. *Prerequisite: PSY-120.*

PSY-250 Psychology of Personality (3) Y

Survey of various theoretical conceptions of personality and the different types of data they are based on. Each approach is evaluated critically in light of its ability to explain scientifically both the uniqueness of individual patterns of behavior and the personality characteristics common to all humans. *Prerequisite: PSY-120.*

PSY-260 Cognitive Psychology (3) Y

Survey of the major aspects of human cognition, including attention, perception, memory, language, reasoning, and problem-solving. Theories focus on mental processes and representations and are based on data from both normal and neuropsychological populations. *Prerequisite: PSY-120 is recommended.*

PSY-310 Research Methods (4) A

Introduction to research methods in psychology, including experimental and correlational techniques. Topics include design of experiments; surveys; observational research; single-case studies; writing research reports; ethics in research. Emphasis on conceptual understanding of research issues and application of the principles of experimental design. *Prerequisites: PSY-120; MATH-220 or 245; at least one psychology course at the 200 level or above, or permission of instructor.*

PSY-320 Learning and Memory (3) D

Examination of data and theories of learning and memory in both animals and humans. Topics include classical and operant conditioning; spatial cognition; encoding and retrieval; memory for prose; memory systems; and amnesia. *Prerequisite: At least one psychology course at the 200 level or above.*

PSY-330 Psychology of Gender (3) Y

Gender and gender-related behaviors are studied from social and psychological perspectives. Major topics include the creation and development of gendered identities, gender in close relationships, social and cultural influences on the formation and maintenance of gender identity, gender issues in mental health, the influence of gender on work and achievement, and gender issues in aging. *Prerequisite: PSY-120.*

PSY-350 Research Experience I (3) SI

Students and instructor work together, mastering current knowledge on a cutting-edge topic in psychology. This course culminates in a creative effort to contribute to the focus area by conducting a jointly designed original research project and presenting the results in a public forum. *(Must be taken concurrently with PSY-351.) Prerequisite: PSY-120.*

PSY-351 Research Experience I Lab (1) SI

This lab is required as part of PSY-350. Lab activities include running laboratory experiments, coding data, doing field work, and transcribing data, depending on the nature of the research project. (*Must be taken concurrently with PSY-351.*) *Prerequisite: PSY-120.*

PSY-360 Adult Development and Aging (3) A

Introduces students interested in gerontology to individual and interpersonal aspects of development in adulthood and old age. Using an interdisciplinary orientation, this course covers topics involving biological, cognitive, emotional, behavioral, and social aspects of development during this period of the life course. *Prerequisite: PSY-120.*

PSY-370 Advanced Topics in Psychology (3) D

Rotates offerings of standard topics in psychology at an advanced undergraduate level. These topics include memory, cognition, learning, sensation and perception, tests and measurements, and clinical psychology. *Prerequisite: Completion of two 200-level psychology courses.*

PSY-425 Theories and Techniques of Counseling (3) Y

Survey of the major theories of counseling and psychotherapy, such as humanistic, behavioral, cognitive, and psychodynamic. The course reviews various perspectives on how problems develop, how theories guide interventions, and ethical issues. In addition, students begin to learn about how these ideas are applied in therapeutic relationships. For instance, students learn the fundamentals of therapeutic relationships, basic listening skills, and defining and focusing of therapeutic goals. *Prerequisites: PSY-120, PSY-250.*

PSY-455 Guided Research (3) D

This course allows students to pursue research activities under faculty direction. The course involves completing research activities (e.g., conducting literature reviews, project designing, data collection and analysis, composing results) as established through agreement with the instructor.

PSY-460 Practicum in Psychology (4) Y

The practicum involves the student being placed at a field site. There the student observes and assists in the provision of psychological services such as testing, teaching, counseling, and advising. Working under the supervision of a qualified professional, the student is given tasks that are within the scope of the student's abilities and training. The course exposes students to professional issues and problems in the delivery of psychological services. A classroom component also is involved. Research practica also are available through this course. *Prerequisites: Senior standing and permission of instructor.*

PSY-470 Special Topics in Psychology (3) A

Study of a particular area of psychology not covered comprehensively in one of the other advanced courses. The topic for a given semester is announced prior to registration for the semester, having been selected in response to student needs and interests. Examples of special topics include psychology and the law, human sexuality, clinical psychology, industrial psychology, and child psychopathology. A student may receive credit more than once for PSY-470 if a different topic is covered each time. *Prerequisite: PSY-120 and at least junior standing or permission of instructor.*

PSY-499 Internship in Psychology (6-8) Y

The internship involves the student being placed at a field site to observe and assist in the provision of psychological services. These services include testing, teaching, counseling, and advising. Working under the

supervision of a qualified professional, the student is given tasks that are within the scope of the student's abilities and training. Research internships are also available through this course. *Prerequisite: Senior standing and permission of instructor.*

Religion Courses

Religion courses are offered by the Philosophy and Religion Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

REL-100 Christianity (3) A

An introductory examination of the Christian movement from its Jewish background to its present status as a diverse world religious community. Particular attention is given to the historic traditions (Catholic, Orthodox, Protestant), different forms of worship and ritual, major religious tenets, and the corresponding variety of models for Christian community.

REL-101 Judaism (3) Y

An introductory examination of the Jewish tradition from the biblical period to its present status as a set of diverse world religious communities. Particular attention is given to the various communities that make up contemporary Jewry (Orthodox, Reform, Conservative, Reconstructionist), different forms of worship and ritual, major religious tenets, and the ways festivals and life-cycle events are celebrated. Other topics may include contemporary debates about the basis of Jewish identity, the relationship of American Judaism to the state of Israel, and the implications of the Holocaust for the ongoing dialogue between Jewish and Christian traditions.

REL-109 Religion Freshman Seminar (1) SI

General orientation to Religion, Pre-Theology, and Youth Ministry curricula. Attention is given to general concepts, academic literature, library skills, and basic writing skills in these majors. Required of all freshmen departmental majors. *(Cross-listed with PHIL-109. Does not satisfy the Judaic-Christian Religion requirement.)*

REL-200 Old Testament Life and Literature (3) A

This course attempts to understand the literature of the Old Testament in the context of the history and culture of the Ancient Near East. Students are introduced to what contemporary scholarship contributes to this endeavor.

REL-210 New Testament Life and Literature (3) A

This course attempts to understand the literature of the New Testament in the context of the history and culture of the Greco-Roman world. Students are introduced to what contemporary scholarship contributes to this endeavor.

REL-220 Christian Theology I (3) Y

This course introduces students to Christian theology as an ecumenical discipline. It is organized around several classical and contemporary questions: Who is God and what does God do? Who was Jesus and what did he do? How do we understand the Holy Spirit? What is the purpose of the church? What are sacraments and how are they to be understood? What is the nature of salvation? What is the relationship between reconciliation with God growing in the life of holiness and love? As a discipline that arises out of historical traditions (Orthodox,

Catholic, Protestant), references are made to key theological texts and influential thinkers past and present. Consideration also is given to Christianity's relationship to Judaism and other religions.

REL-230 Sociology and Religion (3) N

Study of religion as a social institution and of the Christian church as a social organization. Attention is given to the interrelations of religion and other major institutions and the effect of religion on the individual. *(Cross-listed as SOC-230.)*

REL-250 History of Christianity I: 30–1500 (3) O/SI

This course focuses on the development of Christian thought and practice from the apostolic period through the medieval period to the eve of the Protestant Reformation.

REL-260 History of Christianity II: 1500–Present (3) O/SII

This course focuses on the development of Christian thought and practice from the era of the Protestant Reformation into the modern period.

REL-280 United Methodist Ecclesiology and Polity (3) N

Students gain a working knowledge of the nature, organization, and polity of the United Methodist Church against the historical backdrop of the pan-Methodist origins of contemporary institutions and movements. *(This course is available only to Youth Ministry Training Program majors and may not be used to satisfy the Judaic-Christian requirement for the General Education core.) Offered only at Christian Theological Seminary campus.*

REL-299 Issues in Religion (3) N

A special topic in Religion is chosen for study. The topic is selected by the instructor, who considers student interests in determining the nature of the course in a given semester.

REL-300 World Religions (3) Y

Looking particularly at non-Western traditions, this course uses comparative methods to explore and understand the diverse phenomena of religion around the world. It emphasizes both the cultural context of religious practice and the lived experience of the practitioners. *(This course will not satisfy the Judaic-Christian traditions requirement but will satisfy the Cross-Cultural Understanding requirement of the General Education core.)*

REL-310 Christian Ethics (3) SII

In this course we will explore some of the concerns and interests that Christian ethicists have in common with secular philosophers, including the nature of deontological, utilitarian, and virtue ethics. Also explored will be some of the many ways that Christian ethics has its own distinctive set of concerns, especially ethical decision-making's relations with scripture and doctrine. *(Cross-listed as PHIL-350.)*

REL-320 Interpretation of the Bible (3) N

Taught as a seminar, this course studies how the Bible has been and is being interpreted. Attention is given to the early church's ways of reading scripture and to the multiple readings of scripture present in contemporary society. *Prerequisite: REL-200 or REL-210.*

REL-330 Jesus (3) O

Central to Christian tradition, Jesus has appeared in different ways to Christians. The primary objective of this course is to reconstruct Jesus' message and ministry on the basis of available sources and historical methods. A

secondary objective examines some of the ways in which Jesus' significance was expressed in the early church.

Prerequisite: REL-200 or REL-210 or permission of instructor.

REL-340 Philosophy of Religion (3) O

Students study such issues as the existence of God, the nature and destiny of persons, the relation of faith and reason, and the nature and diversity of religious experience. These issues include such traditional problems as those concerning evil, free will, and religious language. (*Cross-listed as PHIL-340.*)

REL-350 Religion and Magic (3) O

Review of traditional, non-Western religious practices, providing a cross-cultural perspective on topics such as spirit beings, natural and supernatural forces, taboos, magic, witchcraft, sorcery, divination, healing, shamanism, totemism, death, ghosts, afterworlds, and revival cults. (*Cross-listed as ANTH-310.*)

REL-390 Honors Religion (3) N

A study of historical and/or contemporary developments in the Jewish and Christian traditions. Special attention may be given to the importance of Jewish and Christian practices in relation to each other and with other religious traditions.

REL-410 Issues in Religion (3) D

An advanced topic in religion is chosen for study. The instructor selects a topic considering student interests in determining the nature of the course in a given semester. *Prerequisite: Any 200-level Religion course or higher.*

Respiratory Therapy Courses

Respiratory Therapy classes are offered through the Biology Department and Clarian Health. Information about the department and its majors and minors can be found in the section entitled Academic Units.

Note: Respiratory Therapy courses may be taken by only students who have applied for and received admission to the clinical component of the Respiratory Therapy Program.

RESP-303 Introduction to Human Diseases for Respiratory Therapists (2) D

This course gives respiratory therapy students a general introduction to a broad variety of human diseases. Etiology, diagnosis, and treatment will be discussed.

RESP-311 Cardiorespiratory Physiology (3) D

This course focuses on the normal anatomy and physiology of the cardiorespiratory system, including lung mechanics, ventilation, perfusion, diffusion, gas transport, and acid-base balance.

RESP-315 Cardiorespiratory Assessment and Patient Care (3) D

Basic cardiorespiratory assessment, vital signs, laboratory studies, and charting. Includes required preclinical skills and practice.

RESP-325 General Respiratory Care (4) D

This course focuses on basic respiratory therapy procedures. Physiologic applications, effects on the cardiopulmonary system, and hazards for each therapeutic procedure are discussed. Topics include physical principles, airway care, humidity and aerosol therapy, medical gas therapy, hyperinflation therapy, and chest physical therapy.

RESP-326 Respiratory Care Techniques I (2) D

This course focuses on the most important clinical laboratory procedures and on procedures used by the respiratory therapist. Specifically, this course instructs students in patient assessment, oxygen administration, humidity and aerosol therapy, chest physical therapy, hyperinflation therapy, and monitoring expired gases.

RESP-333 Cardiorespiratory Pharmacology I (2) D

This course provides an overview of the basics of pharmacologic therapeutics, focusing on dosages and solutions and bronchodilator drugs. Indications, side effects, mechanism of action, and route of administration are discussed.

RESP-350 Cardiorespiratory Diseases (3) D

This course outlines general cardiorespiratory diseases of the adult, including acute and chronic disorders. Respiratory therapeutics applied to these disorders are discussed.

RESP-355 Life Support (3) D

This course includes care of the artificial airway, cardiovascular monitoring and supportive therapy, principles of ventilatory care and maintenance, and physiologic effects and complications of airway pressure therapy.

RESP-356 Respiratory Care Techniques II (2) D

This course focuses on the most important clinical laboratory procedures and equipment used by the respiratory therapist to support critically ill patients. Specifically, this course instructs students in mechanical ventilators, pressure and heart rate monitors, pulmonary mechanics devices, and arterial blood gas sampling.

RESP-371 Pulmonary Diagnostics (3) D

This course outlines and discusses both normal and abnormal lung volumes and capacities, mechanics of ventilation, inspiratory and expiratory flows, and diffusion of the lung. Additionally, specialty diagnostic techniques such as x-rays, bronchoscopy, ventilation/perfusion scans, and exercise testing are overviewed.

RESP-385 Respiratory Care Practicum I (3) D

This course applies cardiopulmonary assessment techniques, information gathering, and communication skills in providing general respiratory care in the clinical setting, including medical gas, humidity and aerosol therapy delivery, and treatment modalities.

RESP-395 Respiratory Care Practicum II (4) D

This clinical practicum introduces students to variations in oxygen delivery and basic mechanical ventilation. Treatment modalities and hemodynamic monitoring on mechanically ventilated patients will be integrated.

RESP-405 Neonatal-Pediatric Respiratory Care (3) D

This course outlines fetal physiology, cardiorespiratory transition, and respiratory management of neonatal pathologies, including respiratory distress syndrome. Cardiorespiratory techniques for the pediatric patient as well as pediatric trauma and transport are reviewed.

RESP-420 Introduction to Research in Respiratory Care (2) D

This course examines research in respiratory care and applies basic statistics and concepts of research design.

RESP-430 Management and Leadership for Respiratory Care (3) D

Specific theory and practice applied to directing and managing a respiratory therapy department, including the managerial functions of budgeting, controlling, organization, planning, staffing, and coordinating. Leadership and skills pertinent to these functions as well as effective communication and professionalism are included.

RESP-440 Advanced Cardiac Life Support (2) D

This course introduces students to the didactic and technical skills needed for successful completion of the advanced cardiac life support proficiencies set forth by the American Heart Association.

RESP-444 Cardiorespiratory Pharmacology II (2) D

An overview of pharmacologic agents and their effects on the various body systems. Drug effects on the respiratory, circulatory, and nervous systems are emphasized.

RESP-445 Seminar in Cardiorespiratory Care (3) D

Specialty and expanded practice areas of emphasis for respiratory care presented in a seminar format. Emphasis will be placed on critical thinking, judgment skills, and communication abilities.

RESP-451 Cardiorespiratory Monitoring and Special Techniques (3) D

This course reviews electrocardiograms, intracranial pressure monitoring, capnography, and pulmonary artery monitoring techniques. Case studies emphasizing these special procedures are presented.

RESP-456 Respiratory Care Practicum III (6) D

This course allows students to provide advanced patient assessment techniques, information gathering skills, and communication and leadership skills in the neonatal/pediatric and adult critical care clinical settings.

RESP-461 Pulmonary Rehabilitation and Geriatrics (3) D

This course gives an overview of rehabilitation therapies and techniques applicable to chronic lung disease, as well as respiratory home care. Basic concepts of gerontology and geriatrics are presented.

RESP-480 Patient Education Techniques for Respiratory Therapists (3) D

Education techniques for patients and families dealing with chronic respiratory disease. Topics include asthma, COPD, and smoking cessation education. Assessment of learning readiness, reading levels, and patient comprehension will be addressed.

RESP-485 Respiratory Care Practicum IV (6) D

Students will manage patients in critical care settings with emphasis on cardiopulmonary assessment and monitoring. They will participate in pulmonary rehabilitation, homecare, advanced life support, pulmonary function, polysomnography, and other clinical specialties.

Science, Interdisciplinary

SCI-210 The Science of Food (4) D

A science course designed for non-science majors. Scientific principles will be explored with food and food preparation as a central theme. Students will use the scientific method and mathematical modeling to investigate the chemistry, biology, physics, and mathematics principles underlying various types of foods and food preparation. Topics include the chemical structure of sugars and starch, the biology and physics of making bread, exploration of animal development through observations of eggs, genetic engineering of corn, the

ecology and evolution of apple trees, and the chemistry of fermentation. Three laboratory sessions per week emphasizing learning by inquiry.

SCI-230 Gender and Ethnicity in Mathematics and Science (3) D

Students will explore the history of women and minorities in math and science, including their contributions and the obstacles they overcame. Students will gain further insight into how societal influences have shaped the status of these groups within the scientific community. Topics also will include contemporary gender and ethnic issues related to math and science such as sexism and racism in classrooms and textbooks, single-sex classrooms, scientific research supporting stereotypical differences in abilities, math and science anxiety, and efforts to encourage the participation of underrepresented groups in scientific and math-related careers. This will be a discussion-based course with student-driven readings.

School for Adult Learning Courses

The following courses are offered through the School for Adult Learning and are available only to students admitted to that school. Information about the School for Adult Learning and its majors can be found in the section entitled Academic Units.

SAL-101 Return to Learning (1) A (Accelerated)

This course assists adult learners in returning to an academic environment. Topics covered include course registration, financial aid, and career services programs. Students complete a learning style assessment. Specific learning methods are discussed for each learning style.

SAL-280 Special Topics (1–3) Y (Accelerated)

Examination of a special introductory topic of interest to adult learners that is not covered in the regular curriculum. Topics vary, and students may repeat the course for credit if the topic is different.

SAL-410 Excellence in Liberal Studies (3) A (Accelerated)

Serves as the capstone experience for all adult students earning the Bachelor of Liberal Studies degree. Provides the venue for assessing at the program level the four University-wide learning goals. A service learning component is required.

SAL-480 Special Topics (1–3) Y (Accelerated)

Examination of a special, advanced topic of interest to adult learners that is not covered in the regular curriculum. Topics vary, and students may repeat the course for credit if the topic is different.

Social Work Courses

Social Work courses in the Phylis Lan Lin Social Work program are offered through the Social Sciences Department. Information about the department and its majors and minors can be found in the section entitled Academic Units. Please refer to the Social Work Program Handbook for all policies regarding the Social Work Program.

SOWK-110 The Field of Social Work (3) A

Introduction to the social work profession. Course examines social work concepts, functions, roles, and value base. The class examines social conditions and problems for vulnerable populations and the service delivery

systems in which social work is practiced. Tours of local agencies and interviews with professional social workers are included. *Open to all majors, this course is required for admission into the social work program.*

SOWK-111 Field of Social Work Service Learning Lab (1) D

The lab introduces students to experiences of fieldwork related to the social work profession by allowing them to “learn by doing” within a community agency/organization. The students spend 28 working hours at a social service agency during the semester. Students perform assigned agency duties and keep a reflective journal of experiences at the placement site. *Corequisite: SOWK-110.*

SOWK-200 Working with and for Children and Youth (3) SI

Survey of child welfare services and intervention strategies. Course examines developmental, health, risk, service, legal, and advocacy problems and issues for human services professionals engaged in practice with children and youth. Assessment and intervention strategies for children and adolescents are included as determined by student interest. *Elective: Open to all students.*

SOWK-210 Working with and for Older Adults (3) D

Examination of the broad spectrum of perspectives on aging. Topics include the images of the aged, work with aged individuals and their families, advocacy for the aged in institutions, skills for communicating with older persons, and assessment of senior citizens’ needs. *Elective: Open to all students.*

SOWK-230 Foundations for Social Work Practice (3) SII

Course examines generalist intervention strategies on a systems perspective. Various models for problem solving at the level of individuals, families, groups, neighborhoods, organizations, and communities are studied. Fundamental skills in interpersonal communications and interviewing are included. Laboratory experiences include simulations, role plays, and videotaping. *Satisfactory completion of or concurrent enrollment in SOWK-110 is highly recommended. This course is required for admission into the social work program.*

SOWK-310 Social Work Practice with Micro Systems (3) SI

Social work practice with emphasis on small-systems perspectives. Emphasis is on theories, methods, and techniques of practice within the contexts of individuals, families, and small social networks. Documentation, assessment, networking, and the development and use of resources are examined. Approaches for integrating practice with larger systems are included. Laboratory work includes role playing, simulations, and videotaping as an integral part of the course. *Prerequisites: Admission to Social Work Program and completion of SOWK-360.*

SOWK-320 Social Work Practice with Mezzo Systems (3) SII

Social work practice with emphasis on medium-sized systems perspectives. Emphasis is on theories, methods, and techniques of practice within the contexts of secondary social systems such as reference, peer, and supportive groups. Approaches for integrating practice with smaller and larger systems are included. Laboratory work includes role playing, simulations, and possible field work as an integral part of the course. *Prerequisite: Admission to Social Work Program and completion of SOWK-360.*

SOWK-330 Social Work Practice Macro Systems (3) SII

Social work practice with emphasis on large-systems perspectives. Emphasis is on theories, methods, and techniques of practice within organizational, neighborhood, and community contexts. Change strategies such as mobilization, social action, citizen participation, advocacy, popular education, and services development are explored. Approaches for integrating practice with smaller systems are included. Laboratory work includes

structured events, simulations, and electronic conferencing as an integral part of the course. *Prerequisites: Admission to Social Work Program and completion of SOWK-365.*

SOWK-340 Social Work Research (4) SI

Course designed to develop the student's use and appreciation of scientific knowledge for practice. Includes study and integrating knowledge, skills, and values in the areas of social work values and ethics, diversity, social and economic justice, populations-at-risk, human behavior and the social environment, social welfare policy and services, social work practice, and field practice. Course focuses on both practice evaluation and program evaluation issues. Designed to strengthen the student's understanding and appreciation of a scientific, analytic approach to building knowledge for the delivery and evaluation of practice. *Prerequisite: Acceptance into the major or permission of the instructor.*

SOWK-350 Junior Practicum in Social Work (6) A

Junior practicum in social work at a prearranged and approved social service agency. Obligations include 168 clock hours of direct experience at an agency, plus additional classroom integration seminars, readings, and assignments. *Prerequisite: Completion of one Practice course and admission to Social Work Program.*

SOWK-360 Micro-Mezzo Human Behavior in the Social Environment (3) SII

Course integrates and consolidates theories from prerequisite social, behavioral, and biological sciences courses from a human growth and development perspective. Themes include assessing and understanding human diversity in varying social contexts, social justice, oppression, cultural heritage, and concerns for specific vulnerable populations. Emphasis is on individuals, families, and groups, and the reciprocal interactions between them.

SOWK-365 Macro Human Behavior in the Social Environment (3) SI

This course is similar to SOWK-360 in that it integrates and consolidates theories from prerequisite social, behavioral, and biological sciences courses. Themes include assessing and understanding human diversity in varying social contexts, social injustice, oppression, cultural heritage, and concerns for specific vulnerable populations. Primary focus is on organizations, communities, institutions, and the reciprocal interactions between individuals and these systems.

SOWK-370 Social Welfare Policy and Services (3) SI

Course examines the characteristics of contemporary social welfare policies and services. Models for understanding intent, adequacy, effectiveness, costs, and equity are emphasized. Policy implications for practice within culturally diverse contexts are studied. Implications for practice with different sizes and types of systems and populations at risk are explored.

SOWK-390 Understanding Addictions (3) D

This course studies the dynamics of the addictions process, including causation, symptoms, consequences, prevention, and treatment options. Emphasis is placed on chemical dependency and the abuse of illicit chemicals. Other addictive behaviors also are explored. *Open to all students. (Cross-listed as CRIM-390.)*

SOWK-430 Topical Seminar: Social Work (3) D

Study of a particular area of social work not covered in one of the other advanced courses. The topic for a given semester is announced prior to registration for the semester, having been selected in response to student needs and interests. A student may receive credit more than once for SOWK-430 if a different topic is covered each time.

SOWK-450 Senior Practicum in Social Work (6-12) A

Senior practicum in social work at a prearranged and approved social services agency. Obligations include 336 clock hours of direct experience at an agency plus additional classroom integration seminars, readings, and assignments. Course may be taken during one semester for a total of 12 semester hours or over a two-semester period for six semester hours per semester. Students may not accrue more than 12 hours for the senior practicum requirement. *Prerequisite: Completion of all Practice courses (or two with concurrent enrollment in one), and admission to the Social Work Program.*

SOWK-460 Capstone Seminar in Social Work (3) SII

Course examines historical contexts and philosophical perspectives on the development of social welfare institutions and the profession as a response to social conditions and human needs. Concerns for social and economic justice for diverse populations at risk are examined. *Prerequisite: Admission to the Social Work Program, completion of 90 hours, and completion of SOWK-350.*

Sociology Courses

Sociology courses are offered by the Social Sciences Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

SOC-101 Principles of Sociology (3) A

Introduction to the major concepts and theories of the field of sociology. The course seeks to acquaint the student with recognized group processes and resulting institutions and to show the effects of these on social behavior. The course discusses social forces for social stability and social change.

SOC-103 Social Problems (3) A

Introduction to the study of the major social problems characteristic of society. An attempt is made to show the interrelation of problems and to emphasize sociological causes.

SOC-104 Social Problems Service Learning Lab (1) A

Course is designed to add a real-world dimension to study of social problems by allowing students direct experience of addressing social problems in the community. Students will spend 28 hours working at an Indianapolis agency/organization over the course of the semester. Students will keep a journal and summary of site experiences in relation to material covered in the Social Problems course. *Corequisite: SOC-103.*

SOC-175 Applying Sociology (3) SII

Introduces students to the broad range of applications of sociological expertise. As such, it will emphasize sociological theory and research methods in addressing social issues and problems. The course will combine experiential learning with classroom discussion and lecture. There will be regular field trips to different agencies, organizations, and communities that will form the core of the course. The relationship of sociological theory to sociological practice will be emphasized in the classroom component. *Prerequisite: SOC-101 or 103.*

SOC-215 Social Psychology (3) O

Study of the social processes of identity formation and self-presentation, the negotiation of meaning and roles, the construction of emotion, and small-group dynamics as reflected in the work of Mead, Simmel, Goffman, Blumer, Garfinkel, Hochschild, and others.

SOC-220 Race and Ethnic Relations (3) A

Examination of the concept of race and of the relations between ethnic and racial groups in the United States. Emphasis is given to African Americans in America through readings in African American culture and history. *Prerequisite: SOC-101 or 103.*

SOC-230 Sociology and Religion (3) O

Study of religion as a social institution and of the Christian church as a social organization. Attention is given to the interrelations of religion, the other major institutions, and the effect of religion on the individual. *(Cross-listed as REL-230.) Prerequisite: SOC-101.*

SOC-240 Conflict Resolution (3) D

Examines conflict that occurs in interaction between individuals, small groups, and organizations. A framework for the systematic analysis of conflict and communication is provided. Case studies, role play, and other exercises are used to identify communication problems and learn strategies for addressing those problems.

SOC-250 Gender Issues in Law and Society (3) SII

Examination of the evolution of gender issues from traditional roles to nontraditional roles from an historical context to modern-day contemporary life. Gender is examined critically and reviewed at the macro and micro levels of various components of society with a focus on gender status, relationships, and treatment in different institutional, organizational, and group settings. Comparing the role of gender and its evolution in the United States to that of other countries, the focus will be on emerging and continuing issues of gender. *(Cross-listed as CRIM-250.)*

SOC-310 The Family: A Global Perspective (3) SII

Study of the family as a social institution. In addition to studying American family life, the course also explores cultural variations in family structure, life cycle, functions, and controls in selected contemporary societies. *Prerequisite: SOC-101 or 103.*

SOC-315 Urban and Community Sociology (3) SI

Course designed to familiarize students with the basic structure of cities and communities. It will focus on the historical development of cities and communities, their contemporary characteristics, and future prospects as well as the social/psychological experience of living in cities and communities. Specific topics will include urban and community planning, community organizing, urban power, community policing, and intentional communities. *Prerequisite: SOC-101 or 103.*

SOC-325 Classical Sociological Theory (3) SI

The course investigates the origins and history of social theory from the ancient Chinese and Greeks through the 19th century. Early sociological theorists, particularly Marx, Weber, and Durkheim, are the primary focus of the class. This is the first semester of a two-semester sequence. Contemporary Social Theory (SOC-326) continues the study of sociological theory through the present with particular emphasis on Critical Theory, Symbolic Interactionism, and postmodernism. *Prerequisite: SOC-101.*

SOC-326 Contemporary Social Theory (3) SII

This course is a continuation of SOC-325 and continues the study of social theory from the early years of the 20th century through today. It includes an analysis of critical theory, multicultural and Afrocentric theory, feminist theory, symbolic interaction, phenomenology, and postmodernism. The course examines the relationship between social theory and social action/social change in contemporary society. *Prerequisite: SOC-325.*

SOC-330 Introduction to Social Research (3) SI

Introduction to the basic problems and nature of research. Emphasis is placed on the areas of design and the construction of instruments of measurement of social data. The student is encouraged to design a research project in an area of interest. *Prerequisite: SOC-101.*

SOC-331 Quantitative Data Analysis (3) D

This course provides a hands-on introduction to commonly used methods of analyzing and interpreting quantitative social science data using secondary data sets. Students will learn how to prepare and enter data into SPSS and EXCEL, use and interpret a variety of descriptive statistics and other data summary techniques, calculate and understand simple relationships between variables, and analyze differences among various groups. In addition, students will formulate and investigate research questions that may be answered using publicly available secondary data sets. Students will be expected to apply the concepts and skills learned in the course by developing and examining a research question (or questions) analyzing data from a secondary data set and writing a report of their methods, findings, and conclusions. *Prerequisites: MATH 220 Elementary Statistics; SOC-330 Introduction to Social Research or SOWK-340 Social Work Research.*

SOC-332 Qualitative Methods of Research and Evaluation (3) D

This course examines different approaches to collecting, analyzing, and interpreting qualitative data. Methodological and ethical issues of doing qualitative research also will be explored. Students will have opportunities to engage in small class-designed research projects or larger ongoing projects when available. Each student also will develop a proposal for a study that uses qualitative or mixed (qualitative and quantitative) methods to collect data. *Prerequisite: SOC-330: Introduction to Social Research or SOWK-340: Social Work Research.*

SOC-335 Sociology of Aging (3) D

Aging is studied as a changing and complex social process. The course focuses on the social, political, and economic contexts that shape social definitions and experiences related to aging. Social policies, quality of life issues, and cross-cultural differences related to aging are explored.

SOC-340 Chinese Culture and Society (3) D

Course about Chinese people, history, culture, and society. The contents of the course include a review of the history and reigns of China, an in-depth discussion of social institutions in Chinese society, an appreciation of various Chinese art forms from a sociocultural-historical perspective, and an investigation of Chinese in America with ethnic groups in comparative frames of reference.

SOC-350 Practicum in Sociology (1–8) A

Practical application of classroom knowledge to an actual work situation in the field, thus offering the student experiential learning in his/her chosen major. Field practica are arranged at community agencies and other sites meeting the needs of society. The student is supervised by an on-site professional as well as a faculty member. *Prerequisites: Junior or senior standing; major or minor in sociology; GPA of 2.3 or above; or consent of instructor.*

SOC-360 Advanced Practicum in Sociology (4–8) D

Allows the student to take on greater responsibility within an agency while still being supervised by professional staff and faculty. *Prerequisites: Junior or senior standing; major or minor in sociology; GPA of 2.3 or above; or consent of instructor.*

SOC-425 Law and Society (3) SI

Examines the functions of law, the impact of law on human relationships within society, intended and unintended consequences of laws, and the role and impact of legal processes, institutions, and practitioners, with a focus on both national and international contexts. (*Cross-listed as CRIM-425.*)

SOC-430 Topical Seminar: Sociology (3) D

Study of a particular area of sociology not covered comprehensively in one of the other advanced courses. The topic for a given semester is announced prior to registration for the semester, having been selected in response to student needs and wishes. A student may receive credit more than once for SOC-430 if a different topic is covered each time. *Prerequisite: SOC-101 or 103, or consent of instructor.*

SOC-440 Senior Seminar in Sociology I (3) SI

This seminar provides students with the opportunity to demonstrate and further develop their sociological knowledge and skills in preparation for a career or graduate studies. They will research, select, propose, and design a team project that will benefit the program, University, and/or community, in consultation with the instructor, other department faculty members, relevant community experts, and potential beneficiaries. Students also will individually develop and produce a research-based paper. Some meetings outside of class time may be necessary. *Senior status or approval of faculty advisor or chair required.*

SOC-441 Senior Seminar in Sociology II (1) SII

This seminar provides Sociology students with an opportunity to present the results of their individual work from the first semester through formal presentations, continue their explorations of career opportunities, and complete their group project or individual papers (if needed). Some meeting outside of class time may be necessary. *Prerequisite: SOC-440.*

Social Science Courses

The following social science courses are interdisciplinary courses offered in the Social Sciences Department. Information about the department and its majors can be found in the section entitled Academic Units.

SOCS-200 Honors: Exploring Human Complexity (3) Y

An in-depth interdisciplinary study of the many components that influence the development of individuals within both their specific groups and the context of Western culture. Various elements in this multifactorial and reciprocal model of human functioning will be explored, with focus on the interaction between them. Each element influences both the individual and the impact of the other elements. Components of the model include topics in biology, anthropology, sociology, psychology, and family theory.

SOCS-204 Psychology of Development, Learning, and Instruction Service-Learning Lab (1) A

This service-learning experience provides students with an opportunity to develop observational and reflective thinking skills, apply concepts from EDUC-203, and analyze learning environments in child- and youth-related organizational settings. *Register concurrently with EDUC-203.*

SOCS-225 Community: Learning and Serving (3) SI

An introductory course in the study of community, this course is also a beginning course in the community-based service-learning curriculum. Course material includes community theory, community research, community diversity, community organizing and organizations, community planning, service learning, and working effectively in community settings. The first half of the semester prepares students for meaningful community

work, while in the second half of the semester, students engage in that work with one of the University's community partners. Participation in the UIndy Service-Learning Expo (December or April) is a requirement of the course. (*Cross-listed as CSL-150.*)

SOCS-290 Honors Social Science (3) O

This course uses a humanistic approach to the study of persons as social beings. Students may discuss general concepts of anthropology, criminal justice, social work, or sociology, depending on the background of the instructor.

SOCS-300 Service Learning in the Social Sciences (3) SI

Course designed to involve students in the community through service learning activities. Students will work in a local community agency/organization on issues of current importance. Students will be expected to design and coordinate the implementation of a project of benefit to the agency/organization and/or the community at large. This will require working with the agency/organization to identify the problem, workable approaches, and the means for carrying out the preferred solution(s). Such projects will involve background research, community dialogue, and leadership development. A minimum of 84 hours of work is required at the agency/organization, as well as additional meetings with the course instructor.

SOCS-401 Undergraduate Community Project (3) SII

This is the capstone course for students completing the minor in Civic Engagement and Community Leadership or completing the Social Sciences Concentration in Community Organizing. The first third of the semester involves classroom lecture and discussion on central features in community organizing and community leadership. Weeks 6–12 are focused on completion of each student's undergraduate community project. The final two weeks of the semester are devoted to discussing each project and participating in the UIndy Service-Learning Expo. (*Cross-listed as CSL-450.*) *Prerequisite: SOC-225 or CSL-150.*

Spanish Courses

Spanish courses are offered by the Modern Languages Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

SPAN-101 Spanish Language and Culture I (4) SI and SII

Designed to study the language and culture of Spanish speakers. Learning to use the language is the most important component of this study. Students develop rudimentary listening, speaking, reading, and writing skills in Spanish and study cultural, geographical, and historical aspects of the Spanish-speaking world. Emphasis is given to developing awareness and understanding of cultural differences and nonbiased attitudes toward cultures different from one's own. This course fulfills the modern language requirement of the general education core.

SPAN-102 Spanish Language and Culture II (4) SI and SII

Designed to continue the sequence of experiences that enables the student to acquire listening, reading, speaking, and writing skills. The course also provides information about the people, places, attitudes, customs, and geography of the Spanish-speaking world. This course fulfills the modern language requirement of the College of Arts and Sciences core. *Prerequisite: SPAN-101 or equivalent.*

SPAN-201 Spanish Language and Culture III (4) SI and SII

Review, practice, and further development of the skills acquired in SPAN-102 or equivalent. Emphasis in this course is on reading, writing, and speaking. This course fulfills the modern language requirement of the bachelor of arts degree. *Prerequisite: SPAN-102 or equivalent.*

SPAN-204 Intermediate Spanish (4) SI and SII

Emphasis on reading, culture, speaking, and grammar. This course is intended to ease the transition from intermediate to advanced levels of Spanish. For Spanish majors and minors. *Prerequisite: SPAN-201 or equivalent.*

SPAN-310 Spanish Conversation I (2) N

Designed to increase the student's ability for fluent and correct self-expression in conversation. *Prerequisite: SPAN-201 or equivalent, or consent of instructor.*

SPAN-311 Spanish Conversation II (2) N

Continuation of SPAN-310. It is aimed at mastering more sophisticated patterns of speech in more complex situations. Students are expected to express themselves on more demanding topics. *Prerequisite: SPAN-201 or equivalent, or consent of instructor.*

SPAN-315 Contemporary Hispanic Nations (2) N

Study of the societies, economies, and political structures of contemporary Hispanic nations. *Prerequisite: SPAN-201 or equivalent, or consent of instructor.*

SPAN-345 Spanish Writing and Correspondence I (2) N

Designed to give students practice in writing simple idiomatic Spanish prose and to teach the basic forms of correspondence. Grammar principles are reviewed as needed. *Prerequisite: SPAN-201 or equivalent, or consent of instructor.*

SPAN-346 Spanish Writing and Correspondence II (2) N

Continuation of SPAN-345. Students employ more complicated sentence structure and progress to more advanced forms of business and professional correspondence. Grammar principles are reviewed as needed. *Prerequisite: SPAN-201 or equivalent, or consent of instructor.*

SPAN-350 Latin American Literature (4) N

Survey of Latin American prose and poetry from the Colonial period to the modern era. *Prerequisite: SPAN-201 or equivalent, or consent of instructor.*

SPAN-360 Spanish Literature Since 1898 (4) N

Survey of Spanish prose and poetry from 1898 to the present. *Prerequisite: SPAN-201 or equivalent, or consent of instructor.*

SPAN-410 Spanish Phonetics (2) N

Designed to introduce students to Spanish phonetics and to allow them to practice intensively the sounds and intonation of spoken Spanish. Emphasis will be given to hearing Spanish from different regions of the world. *Prerequisite: SPAN-201 or equivalent, or consent of instructor.*

SPAN-420 Modern Latin American Narrative (4) N

Study of the modern Latin American novel and short story, including works by Isabel Allende, Gabriel García Márquez, and Juan Rulfo. *Prerequisite: SPAN-201 or equivalent, or consent of instructor.*

SPAN-430 The Spanish Golden Age (4) N

Study of Golden Age drama, poetry, and prose. *Prerequisite: SPAN-201 or equivalent or consent of instructor.*

SPAN-440 Directed Readings in Spanish (1–8) Y/D

Readings in topics selected by the student with approval of the instructor. Speaking is emphasized. *Prerequisite: Junior or senior standing and consent of the instructor or department chair.*

SPAN-480 Selected Topics in Spanish Literature (2–3) N

Study of selected genres, periods, and/or authors in Spanish literature. Speaking is emphasized. Students may enroll in this course any number of times as long as the topic is not a repetition of one for which credit already has been granted. *Prerequisite: SPAN-201 or consent of instructor.*

Supply Chain Management Courses

Supply chain management courses are offered by the School of Business. Information about the school and its majors and minors can be found in the section entitled Academic Units.

SCM-210 Principles of Operations and Supply Chain Management (3) A

The operations function is concerned with the activities associated with the planning, production, and distribution of goods and services. This course surveys operating decisions and practices in both manufacturing- and service-oriented firms. While no attempt is made to cover any particular area in depth, standard terms and concepts required to communicate effectively with operating personnel are introduced. Emphasis is placed on the systems approach to the efficient allocation of resources within the firm, as well as the challenge of managing people, equipment, and materials to achieve organizational objectives.

SCM-386 Quantitative Methods (3) SI

Quantitative methods and modeling techniques used to support management decision making. The following topics are covered: brief review of probability and distributions; decision analysis; utility and decision making; forecasting; linear programming; transportation, assignment, and transshipment problems; integer programming; queuing modeling, computer simulation, and multi-criteria decision problems. *Prerequisite: MATH-220 or MATH-280.*

SCM-388 Production and Operations Management (3) SII

Application of management techniques to the functions of manufacturing, distribution of goods, and management of service industries. Topics include product and service design; location planning, process selection and capacity planning; facilities layout; design of work systems; supply-chain management; aggregate planning; inventory management; materials requirements planning; and just-in-time systems. *Prerequisite: MATH-220 or MATH-280, and SCM-386.*

SCM-404 Project Management (3) SI

This course is designed to introduce students to the concepts and process of project management. The course will include the project manager's role, defining goals and objectives, ownership, scheduling and planning, executing, and monitoring the project. *Prerequisite: MATH-220 or MATH-280, and SCM-210.*

SCM-405 Quality Management (3) SII

This course is designed to introduce students to the background of quality management in the business setting. Students will become fluent in the key terms and concepts of total quality management and will be introduced to the work of recognized leaders in the field. Case studies will be used to acquaint students with the application of total quality management skills. *Prerequisite: MATH-220 or MATH-280, and SCM-210.*

SCM-473 Cost Price Analysis (3) D

Course will provide an understanding of the role of cost price analysis and contract pricing. It also includes an overview of the theories, techniques, and analytical skills and tools and the application of the knowledge of cost-price practices.

SCM-481 Purchasing and Supplier Relationship Management (3) SI

Study of the purchasing process and the supply environment. Topics include identifying requirements for purchased products or services in accordance with organizational objectives and sourcing strategies; preparation of solicitations; supplier analysis and supplier relationship management; contract execution, implementation, and administration; negotiations, information technology in purchasing, quality issues; outsourcing; issues in international supplier management; and internal and external relationships. *Prerequisite: SCM-210.*

SCM-485 Business Logistics and Materials Management (3) SII

Concepts, strategies, and practices related to demand management, procurement and manufacturing, inventory, transportation infrastructure and operations, warehousing, packaging, material handling, and distribution. *Prerequisite: SCM-210.*

Theatre Courses

Theatre courses are offered by the Theatre Department. Information about the department and its majors and minors can be found in the section entitled Academic Units.

THE-110 Introduction to the Theatre (2) A

Study of the entire theatre experience, designed to increase the non-major student's appreciation of theatre as an art form from both aesthetic and practical views.

THE-120 Stagecraft (3) SI

Course designed to teach the theory and practice of the scenic artist's craft. Elements of construction, lighting, engineering, painting, and safety are emphasized both in the classroom and by practical application during productions.

THE-122 Computer Applications in Theatre (3) SI

Introduces the capabilities, applications, and use of computers in the field of theatre and entertainment, including current software packages, explanation of hardware terminology and function, and discussion of the role of computers in theatre and the entertainment industry.

THE-131 Acting I (3) A

Study of the fundamentals of the actor's craft and basic acting techniques. Investigation of creating character through the use of vocal interpretation, physical movement, improvisation, and theatre games. There are two sections of Acting I: one intended for theatre majors and one intended for non-majors. *Prerequisite: Consent of instructor for non-theatre majors for major section.*

THE-132 Speech for the Stage (2) SII

Instruction and exercises in vocal development for the stage, including diction, delivery, and interpretation. *Consent of instructor for non-theatre majors.*

THE-133 Movement for the Stage (2) SI

Instruction and exercises in developing the performer's physical instrument. Course will include stage movement, period/stylized movement, and some period dance. *Prerequisite: Consent of instructor for non-theatre majors.*

THE-134 Theatrical Makeup (3) D

Detailed study of characterization with makeup. Instruction is given in the basic principles of makeup application with a detailed study of the facial structure and special problems.

THE-135 Creative Drama (3) O/SII

Course designed to stimulate and expand the student's interest, knowledge, and experience with creative drama in education and community settings. Learning will result from active observation and participation in class, and completion of reading, projects, and teaching assignments.

THE-150 Theatre Production (1) A

Laboratory for theatre production experience intended for non-majors as partial fulfillment of the applied arts appreciation requirement. Organizational meetings are held early in each semester, during which students sign up for theatre work over the course of the semester. This work may include building scenery, painting, hanging/focusing lights, stage management, running crew, box office, or house management.

THE-221 Scene Design (3) SII

Examination of the history, theory, and practice of stage design. The student's skills as a designer are developed through a series of practical design problems.

THE-222 Lighting Design (3) SI

Examination of the history, theory, and practice of lighting design. The student's skills as a designer are developed through a series of practical design problems.

THE-223 Costume Design (3) SI

Examination of the history, theory and practice of costume design. The student's skills as a designer are developed through a series of practical design problems.

THE-224 Design Seminar (3) SII

A hands-on theatre design simulation used to synthesize learning in production design. Experienced design students will work in a collaborative environment with supervising faculty to create designs in costume, scenery, and lighting. The creative process, design presentation, and critical thinking/problem solving will be emphasized on each project. This class may be repeated three times. *Prerequisite: Two out of three theatre design classes: THE-221, THE-222, or THE-223.*

THE-231 Directing I (3) SI

An introduction to the principles of directing, including play selection, composition, casting, blocking, and rehearsing. Students are required to direct scenes for class and public performance.

THE-241 Play Analysis (3) SII

Basic course in analyzing plays for performance to develop acting, directing, and design processes. Play Analysis includes a study and utilization of critical techniques in interpreting plays and the application of such techniques to the evaluation of plays for stage presentation.

THE-250 Sophomore Seminar (1) SII

Weekly seminar focusing on portfolio development for performers and design/tech students. For performers, course includes instruction in auditioning, obtaining pictures and résumés, issues about agents and unions, and so on. For design/tech students, course will include instruction in similar portfolio development issues. *Consent of instructor for non-theatre majors.*

THE-324 Drawing for the Theatre (3) SI

A comprehensive course designed to familiarize the student with a range of media and focus on methods of seeing and representing the human form. Line, form, mass, texture, and proportion are explored through a series of exercises using live models wearing clothing from different periods (drawing and painting the figure in various stages of dress).

THE-330 Acting II (3) O/SII

Continuation of THE-131, introducing more advanced acting problems and techniques. Includes investigation of characterization through scene work and other methodologies to broaden the acting process. *Prerequisite: THE-131.*

THE-331 Directing II (3) O/SII

Continuation of THE-231, introducing more advanced directing problems and techniques. Includes investigation of period, style, and directing in the non-proscenium space. Students are required to direct scenes for class and public performance. *Prerequisite: THE-231.*

THE-340 Theatre History I (3) O/SI

Course designed to trace the development of theatre from ancient times through the Elizabethan age, encompassing playwriting, directing, acting, costume, makeup, scenery, lighting, properties, theatre architecture, machinery, special effects, management, audiences, and criticism. Non-Western traditions also are considered. The object is to provide context for the theatre's development as an institution.

THE-341 Theatre History II (3) O/SII

Continuation of THE-340, tracing the development of the theatre from the Elizabethan age to the present.

THE-351 Theatre Methods for Elementary Classroom Teachers (1) N

Study of classroom organization and curriculum development in theatre education. Students learn to design and implement a variety of instructional and assessment strategies. Activities relate research and theory of teaching methodology to practical problems faced in the field. Must be taken concurrently with student teaching.

THE-431 Acting III (3) O/SI

Further development of acting skills through more advanced scene study and an increased emphasis on period styles (Shakespeare, Molière, Brecht, Absurdists, et al.). *Prerequisite: THE-330. Consent of instructor for non-theatre majors.*

THE-451 Theatre Internship (3–8) D

Internships are designed to offer students the opportunity to integrate their academic understanding of theatre concepts and production processes. Students may identify a potential internship on their own or through a theatre faculty member or the Office of Career Services and Employer Relations. In order for the student to enroll in and earn academic credit for THE-452, the site and description of the internship must be approved by the Department of Theatre. Supervision of the student is the responsibility of the immediate supervisor. *A grade of S or U is assigned. Prerequisite: Junior or Senior standing, minimum of 2.5 GPA in major, and approval of department chair.*

THE-460 Special Topics in Theatre (1–3) D

Comprehensive examination of a topic not covered thoroughly in other theatre courses. Topics vary, and students may repeat the course for credit if the topic is different.

Youth Ministry Training Program Courses

Youth Ministry Training Program courses are offered by the Philosophy and Religion Department in collaboration with Christian Theological Seminary. Information about the department and its majors and minors can be found in the section entitled Academic Units.

YMTP-100 Introduction to Youth Ministry (2) SI

An introduction to youth ministry that enables students to gain a holistic perspective of the practice of youth ministry while becoming oriented to central practices of the Christian faith. Youth are defined as individuals of middle school and high school age. *Prerequisite: CVOC-101.*

YMTP-200 Introduction to Theology of Youth Ministry (3) SII

This course introduces students to a variety of youth ministry models and promotes theological reflection on the contextual, systematic, and ethical dimensions of working with youth. *Prerequisite: YMTP-100.*

YMTP-300 Education and Formation in the Church (3) Y

In this course, students begin to examine and assess appropriate methods of Christian education as they apply to youth, including issues of faith and human development. *Offered only at Christian Theological Seminary campus.*

YMTP-400 Contemporary Ministry with Youth (3) D

This course is designed to help students engaged in ministry with youth to reflect critically on their ministry practices. Students develop and implement strategies for qualitative assessment of their youth program and research a particular issue related to youth ministry. Participating students must be involved in a youth ministry program (as a staff person or volunteer) or as a member of the Disciples House for Youth summer staff (DHY is a program of Christian Theological Seminary). *Prerequisite: YMTP-300. Offered only at Christian Theological Seminary campus.*

YMTP-405 Nurturing Faith Across the Lifespan (3) N

Students explore the relationship between various age groups and faith formation with emphasis on nurturing the faith of children and youth through observation and critical reflection. *Prerequisite: YMTP-300. Offered only at Christian Theological Seminary campus.*

YMTP-410 Issues in Youth Ministry (3) N

A comprehensive examination of a topic not covered thoroughly in other Youth Ministry courses. Topics vary. *Prerequisite: YMTP-300. Offered only at Christian Theological Seminary campus.*

YMTP-420 Baptism and Confirmation (3) N

This course provides a thorough exploration of the Christian practices of baptism and confirmation, including their history, theology, and application in the contemporary church. *Prerequisite: YMTP-300. Offered only at Christian Theological Seminary campus.*

YMTP-430 Worship and Spirituality (3) N

This seminar course explores the relationship between diverse worship practices and a variety of traditions of Christian spirituality. *Prerequisite: YMTP-300. Offered only at Christian Theological Seminary campus.*

YMTP-440 Teaching and Spirituality (3) N

Students explore teaching youth as theory and practice within the context of Christian practices. Particular attention is given to those practices that enhance the spiritual formation of themselves and others. *Prerequisite: YMTP-300. Offered only at Christian Theological Seminary campus.*

YMTP-450 Christian Education for the Public Realm (3) N

This course explores the impact and integration of one's faith in relation to the wider American culture and the challenges that can arise in the practice of Christian education in congregational settings. *Prerequisite: YMTP-300. Offered only at Christian Theological Seminary campus.*

YMTP-460 Personality, Human Development, and Christian Faith (3) N

Theories of human development in family, community, and societal context. Implications of lifespan transitions for faith and vocation. *Prerequisite: YMTP-300. Offered only at Christian Theological Seminary campus.*