

University Division eGuide to Schools and Majors

2010–2011

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College of Arts and Sciences (COLL)

WWW.INDIANA.EDU/~COLLEGE/

The education offered by the College of Arts and Sciences is based on a tradition established when Indiana University was founded in 1820. Today the College continues its central role in the mission of IU, providing the general education for all undergraduate students. The College provides the means for undergraduates to acquire a liberal arts education: an education that broadens students' awareness in the major areas of human knowledge, significantly deepens that awareness in one or two fields, and prepares the foundation for a lifetime of continual learning.

ADMISSION REQUIREMENTS

The College of Arts and Sciences requires that students seeking any major in the College complete the following:

- 26 credit hours (that count toward graduation) with a 2.000 CGPA
- English composition (with a grade of C– or higher)

The Bachelor of Fine Arts (B.F.A.) degrees and the Individualized Major Program have additional program admission requirements—ask your advisor about these.

FRESHMAN YEAR COURSE WORK

During the freshman year, students pursuing a major in the College of Arts and Sciences usually complete the following:

- **ENGLISH COMPOSITION COURSE(S)**
ENG-W 131 Elementary Composition (or alternative; see ud.iub.edu/fs_composition.php)
- **MATHEMATICS COURSES**
Students earning math test scores at or above 650 on the SAT exam or at or above 29 on the ACT exam are exempt from the fundamental skills math requirement. Some majors in the College, however, specifically require a mathematics course or courses. See your advisor.

Choose from (MATH-M 014, MATH-M 018, MATH-M 025, MATH-M 027)*, MATH-A 118, MATH-M 118, MATH-S 118, (both MATH-D 116 and MATH-D 117 if eligible), MATH-M 119, MATH-M 211.

Any of the above courses except MATH-M 014 and MATH-M 018 can be used to fulfill the fundamental skills math requirement (grade of

C– or higher required). Your advisor will help you finalize your choice based on your major, your background, high school test scores and grades, and your IUB Mathematical Skills Assessment score.

**Note:* Some students may need to take MATH-M 014, MATH-M 025, and / or MATH-M 026, MATH-M 027, or MATH-M 018 as preparation for a higher-level course. No credit is awarded for any of these courses toward graduation. However, MATH-M 025, or MATH-M 027 may be used to fulfill the fundamental skills math requirement.

- **FOREIGN LANGUAGE COURSE(S)**

The IU College of Arts and Sciences teaches more foreign languages than almost any other college or university in the United States, including many of the languages of Central Eurasia and five African languages. Acquiring some proficiency in a foreign language broadens a student's outlook on the world and adds enormous value to a student's college degree. Overseas study is encouraged for students in every major. A student who studies one of the less-commonly taught languages can look forward to a wide range of options after graduation; students who study languages such as Russian, Japanese, or Arabic are highly sought-after for employment—whether in business, government, or foreign affairs.

Foreign language study through the fourth semester is required for most degrees in the College; requirements for the B.S. degree are usually less. You can choose to continue the language you began in high school or start a new language. A placement test will determine your course level if you choose to continue the language you studied in high school.

- **ONE TOPICS COURSE**

Choose from COLL-E 103, COLL-E 104, COLL-E 105, and departmental Topics courses. See the courses section of the *University Division Guide*, pp. 29–32.

Hutton Honors College students may substitute an appropriate freshman honors seminar after consulting with an honors advisor.

Intensive Freshman Seminar (IFS) classes prefixed COLL-S 103, 104, or 105 fulfill the College's Topics requirement. Contact the IFS program office at (812) 855-3839 for information.

- **ADDITIONAL GENERAL EDUCATION DISTRIBUTION COURSE(S) AND CULTURE**

STUDIES COURSE

Distribution courses: Choose from arts and humanities (A&H), social and historical studies (S&H), and natural and mathematical sciences (N&M). See the *Course Descriptions* booklet for descriptions and distribution designation (A&H, S&H, N&M).

Culture studies courses: Two culture studies courses are required for graduation, many of which carry A&H or S&H distribution credit. Many students wait until after the first year to begin this requirement.

■ ONE OR TWO MAJOR COURSES

See descriptions of majors on the following pages for recommended courses.

■ ELECTIVE(S)

No more than two elective courses should be taken in the freshman year.

COLLEGE MAJORS, MINORS, AND CERTIFICATE PROGRAMS

Students must take at least 25 College credit hours in the major subject area (some departments require more) for graduation. Students may also earn a double major or an interdepartmental major. See the College Bulletin for a complete description of major requirements.

What follows is a list of College majors, minors, interdepartmental majors, and certificate programs and then (on pages 3–21) brief descriptions of each major. Note that each major description includes course recommendations for the first year for students considering that major.

African American and African Diaspora studies (AAAD)
 African American and African Diaspora studies / English
 African American and African Diaspora studies / History
 African American and African Diaspora studies / Religious studies
 African American and African Diaspora studies / Sociology
 African Languages (minor only) (LING)
 African studies (certificate only) (AFRI)
 American studies (AMST)
 Animal Behavior (certificate and minor only) (ABEH)
 Anthropology (ANTH)
 Anthropology of Food (minor only) (ANTH)
 Apparel Merchandising (AMID)
 Archeology (minor only) (ANTH)
 Asian American studies (minor only) (AAS)
 Astronomy and Astrophysics (AST)

Atmospheric Science (certificate only) (GEOG)
 Audiology and Hearing (SPHS)
 Biochemistry (CHEM)
 Biology (BIOL)
 Biotechnology (BIOL)
 Central Eurasian studies (minor only) (CEUS)
 Chemistry (CHEM)
 Classical Civilization (CLAS)
 (Art and archaeology, Culture and literature)
 Classical studies (Latin and Greek) (CLAS)
 Cognitive Science (COGS)
 Communication and Culture (CMCL)
 Comparative Arts (minor only) (CMLT)
 Comparative Literature (CMLT)
 Computer Science (CSCI)¹
 Creative Writing (ENG)
 Criminal Justice (CJUS)
 Cultures of Science and Medicine (certificate only) (HPSC)
 Dutch studies (minor only) (GER)
 East Asian Languages and Cultures (EALC)
 (Chinese, Japanese, and Korean)
 East Asian studies (EALC)
 Economics (ECON)
 Economics/Mathematics
 Economics/Political Science
 English (ENG)
 English/African American and African Diaspora studies
 Environmental Science (jointly administered with SPEA)
 European Union studies (minor only) (WEUR)
 Fashion Design (certificate only) (AMID)
 Fine Arts (FINA)
 History of Art
 Studio Art
 Folklore and Ethnomusicology (FOLK)
 French (FRIT)
 Game studies (certificate only) (TEL)
 Gender studies (GNDR)
 Geography (GEOG)
 Geological Sciences (GEOL)
 Germanic studies (GER)
 Global Human Diversity (certificate only) (ANTH)
 Hebrew (minor only) (JSTU)
 History (HIST)
 History/African American and African Diaspora studies
 History and Philosophy of Science (certificate and minor only) (HPSC)
 Human Biology (HUBI)
 India studies (double major only) (INST)
 Individualized Major Program (has entrance requirements) (IMP)
 Interior Design (AMID)

¹ B.A. and minor only; other programs are in the School of Informatics and Computing. See p. 37.

International studies (INTL)
 Italian (FRIT)
 Jewish studies (JSTU)
 Latin American and Caribbean studies (certificate and minor only) (LTAM)
 Latino studies (minor only) (LATS)
 Leadership, Ethics, and Social Action (minor only) (LESA)
 Liberal Arts and Management (certificate only) (LAMP)
 Linguistics (LING)
 Linguistics/Speech and Hearing Sciences
 Mathematics (MATH)
 Mathematics/Economics
 Medieval studies (certificate and minor only) (MEST)
 Microbiology (BIOL)
 Musical Theatre (has entrance requirements) (THTR)
 Near Eastern Languages and Cultures (NELC) (Arabic, Persian)
 Neuroscience (PSY)
 New Media and Interactive Storytelling (certificate only) (TEL)
 Norwegian (minor only) (GER)
 Philosophy (PHIL)
 Philosophy/Political Science
 Philosophy/Religious studies
 Physics (PHYS)
 Political and Civic Engagement (certificate only) (PACE)
 Political Science (POLS)
 Political Science/Economics
 Political Science/Philosophy
 Portuguese (HISP)
 Psychology (PSY)
 Psychology/Speech and Hearing Sciences
 Public and Professional Writing (ENG)
 Religious studies (REL)
 Religious studies/African American and African Diaspora studies
 Religious studies/Philosophy
 Russian (SLAV)
 Russian and East European studies (minor only) (REEL)
 Slavic Languages and Literatures (REEL) (SLAV)
 Social Science and Medicine (minor only) (SOC)
 Sociology (SOC)
 Sociology/African American and African Diaspora studies
 Sociology of Work and Business (minor only)
 Spanish (HISP)
 Speech and Hearing Sciences (SPHS)
 Speech and Hearing Sciences/Linguistics
 Speech and Hearing Sciences/Psychology
 Speech Language Pathology (SPHS)
 Statistics (STAT)
 Telecommunications (TEL)
 Theatre and Drama (THTR)
 Urban studies (certificate only) (SPEA)

West European studies (minor only) (WEUR)

Yiddish studies (minor only) (GER)

African American and African Diaspora Studies (AAAD)

African American and African Diaspora studies (AAAD) has evolved into a twenty-first century liberal arts field that utilizes numerous disciplines to examine the myriad experiences of people of African descent in the United States and throughout the world. Areas of study include art, literature, film, folklore, music, dance, history, institutions, communities, culture, stratification, movements, and identities.

Liberal arts skills stressed in AAAD include critical thinking and experiential learning skills, creative writing, reflective critical reading and writing, ethical and moral reasoning, service learning, community service, intercultural competence and social justice as civic duties of value, scholarship of engagement, and interdisciplinary analysis.

AAAD graduates are enjoying careers in medicine, theatre and drama, music composition, information technology, law, engineering, education, journalism, criminal justice, creative writing, fundraising, politics, social work, business, community organizing, and numerous academic fields.

For the major in African American and African Diaspora studies, a student must complete a minimum of 30 credit hours of undergraduate course work selected from concentration areas including 1) arts; 2) literatures and writings; and 3) histories, cultures, and social issues.

Recommended first-year courses for a major:
 AAAD-A 141, 142, 150, 154, 156, 197, 198, 199, 201, 203, 210, 221, 249, 250, 264, 265, 278, 290.

Please check the department website,
www.indiana.edu/~afroamer/.

African Studies (AFRI)

The African Studies Program provides unique opportunities for students at Indiana University to study with a distinguished faculty, to meet with visiting Africanists from all over the world, and to use the outstanding facilities of the libraries, the Archives of Traditional Music, and the IU Art Museum.

The undergraduate Area Certificate in African Studies was established to satisfy the academic needs of undergraduate students interested in African studies. The certificate provides background for careers in government, business, and the academic world.

To obtain an Area Certificate in African Studies, candidates for the B.A. degree in a major field must complete AFRI-L 231 African Civilization, AFRI-L 232 Contemporary Africa, and four additional 3 credit hour courses with African content from specified disciplines. Those interested in the certificate should talk with the associate director in Woodburn Hall 221.

Demonstrated proficiency or completion of two semesters in a language used on the African continent (other than English)—French, German, Portuguese, Spanish, or any African language; e.g., Arabic, Twi, or Swahili—is also required.

American Studies (AMST)

In American Studies, we explore the history, literature, and culture of the United States and the larger Americas from an interdisciplinary perspective. Our undergraduate major is one of the most intellectually ambitious degrees offered by the College of Arts and Sciences, offering smaller classes, tougher academic requirements, and a closer working relationship with individual faculty right up through the composition of a senior thesis. The program prepares students for a variety of careers, including those in education, the social sciences, law, medicine, and politics, and for graduate study in a wide range of fields and professions. Students will learn to communicate, collaborate, and work across national, cultural, and socioeconomic boundaries, with strong foreign language training and an informed understanding of the place of the United States in the Americas and in the world.

Students must complete 30 credit hours in American Studies. Fifteen credit hours must come from core courses, which include AMST-A 100, A 200, A 350, A 351, & A 450. In consultation with the director, students design an individual concentration (minimum of 15 credit hours) that provides focus and purpose to their remaining course work in the major and solid background for their senior seminar topic. The concentration will be built from concentration courses offered through American Studies (including A201, A202, A275, A298, and A299) and from cross-listed course offerings in other programs, departments, and units.

Foreign Language: Students pursuing a B.A. in American Studies must complete the equivalent of three years of language study. This may require students to take an additional two semesters of foreign language study beyond the standard College requirement. With the approval of the American Studies program, some study abroad options—specifically, foreign language courses or courses taught in a foreign language—may apply toward fulfillment of the requirement. The language(s) chosen for study must pertain directly to

American Studies and requires the approval of the director of the American Studies program. With the approval of the American Studies program, some study abroad options, specifically foreign language courses taught in a foreign language, may apply toward fulfillment of the requirement. The language(s) chosen for study must pertain directly to American Studies and require the approval of the director of the American Studies program.

Honors Program: Students pursuing an honors degree in American Studies must maintain a GPA of 3.5 in the major, and 3.3 overall in the College.

Foreign Language: Students pursuing an Honors B.A. in American Studies must demonstrate advanced language competency in a foreign language—equivalent to a third year of study. This may require students to take an additional two semesters of foreign language study beyond the standard College requirements, including at least one course at the 300 level or above that studies a foreign language literature. The language chosen for study must pertain directly to American Studies and requires the approval of the director of the American Studies program.

In addition to the major requirements, honors students must complete AMST-A 451 Honors Seminar in American Studies (3 cr.) and A 452 Honors Thesis in American Studies (3 cr.).

Recommended first-year courses for a major: AMST-A 100, A 200, A 201, and A 202.

Anthropology (ANTH)

Anthropology is the interpretive, scientific, and comparative study of humankind. The Department of Anthropology offers courses in the history of the discipline, museum studies, general anthropology, and the four subfields: anthropological linguistics, archaeology, bioanthropology, and social/cultural anthropology.

Anthropological linguistics concentrates on human communication through language, the structure of languages, and the history of their development and interrelationship. Archaeology deals with the origins of humankind, past societies around the world, and the study of their material remains. Bioanthropology emphasizes primate origins, evolution, and present-day biological/genetic variation, adaptation of human populations, and disease. Social/cultural anthropology studies contemporary and historical cultures and societies of every scale around the world.

Entering freshmen who are contemplating anthropology as a major and who have adequate background preparation are encouraged to enroll in one or more of the 200-level courses: ANTH-B 200 (Bioanthropology),

ANTH-E 200 (Social and Cultural Anthropology), ANTH-L 200 (Language and Culture), and ANTH-P 200 (Introduction to Archaeology).

Recommended first-year courses for a major: Two courses from ANTH-B 200, ANTH-E 200, ANTH-L 200, ANTH-P 200.

Apparel Merchandising and Interior Design (AMID)

The Department of Apparel Merchandising and Interior Design (AMID) provides two degree options: a B.S. in Apparel Merchandising and a CIDA accredited B.S. in Interior Design. Apparel Merchandising prepares students for a variety of career positions in business, such as retail store manager, buyer, and product developer.

Apparel Merchandising majors must complete a total of 32 AMID credits, including AMID-R 100, F 203, R 204, or F 207, and others. They must also complete selected courses outside AMID, including a minor from the Kelley School of Business. Students should complete AMID-R 100 and F 203 as early as possible.

Recommended courses for the first year for students considering an apparel merchandising major: AMID-R 100, AMID-F 203, MATH-M 118 or M 119 or equivalent, SOC-S 100, PSY- P 101, one year of foreign language.

Interior Design prepares students to become NCIDQ licensed designers who can work in commercial interior design firms, architecture firms, as representatives for manufacturers in the architecture and design field, and in residential design.

Interior Design majors must complete a total of 42 AMID credit hours, including AMID D168, D263, D264, D268, D271, D272, and D277, and others, plus selected courses outside AMID, including FINA-A102, FINA-F100 and F102.

Recommended first-year courses for an interior design major: AMID-D 168 and D 191 (A&H); at least one course from FINA-F 100, F 102, or FINA-A 102. Math-M 118 or M119 or equivalent, one year of foreign language; total of five distribution courses.

For more information see: www.design.iub.edu.

Astronomy and Astrophysics (AST)

The Department of Astronomy and Astrophysics offers courses toward the B.S. degree in astronomy and astrophysics as well as 100-level courses for non-astronomy majors. This program is designed to prepare students for graduate study and a subsequent career in astronomy and astrophysics. The program also serves

the needs of students preparing for careers in related technical fields. Students enrolled in this program use the telescopes at the campus observatories, the Morgan-Monroe State Forest Observatory, Wisconsin-Indiana-Yale NOAO Observatory, and the computing facilities in Swain Hall.

The prospective major should begin the mathematics and physics sequence in the freshman year to help complete the program in four years. Prospective majors should meet with the Department of Astronomy undergraduate advisor as soon as possible to plan a four-year course schedule. Prospective majors with strong preparation are encouraged to take AST-A 221 and A 222 in the first year.

Recommended first-year courses for a major: MATH-M 211 and M 212; PHYS-P 221 and P 222; courses fulfilling distribution or Topics requirement(s).

Biology (BIOL)

Biology is the study of living things—plants, animals, and microbes—at a variety of levels and from different perspectives. The B.S. degree emphasizes more science—biology, math, chemistry, and physics—while the B.A. degree includes more general education courses.

Biology majors should expect to take biology, chemistry, and math as soon as possible. Students planning to take a chemistry course during their first semester will need to take the Chemistry Placement Exam (CPE) online prior to their campus orientation. CPE results are used to determine placement level for chemistry courses and can only be taken once prior to the beginning of a student's first semester enrollment. The CPE is offered online at <http://www.chem.indiana.edu/ugrad/cpe.asp>. It is strongly suggested that students prepare for the exam before taking it. For more details on the CPE, students may contact the Department of Chemistry at (812) 855-2700. B.S. candidates are encouraged to take MATH-M 211; the two-semester sequence of MATH-M 119–M 120 may be substituted. Biology course work will begin with BIOL-L 111 and 112. BIOL-L 113 may not be taken in the first semester of residence unless you have credit for BIOL-L 111 and BIOL-L 112 or E 111 and E 112.

Recommended first-year courses for a major:

B.A. in biology: BIOL-L 111; CHEM-C 117; one year of foreign language.

B.S. in biology: BIOL-L 111 and 112; CHEM-C 117, one year of foreign language; one College Topics requirement: COLL-E 103 or E 104 (not E 105).

Microbiology majors are not required to take BIOL-L 111. The math requirement for the microbiology B.S. is MATH-M 211 (recommended) or M 119 and M 120; for the microbiology B.A., M 119.

B.A. in microbiology: BIOL-L 112; CHEM-C 117; one year of foreign language.

B.S. in microbiology: BIOL-L 112; BIOL-L 211 (second term); CHEM-C 117; one year of foreign language; one College Topics requirement: COLL-E 103 or E 104 (not E 105).

The B.S. in Biotechnology is designed for students who wish to pursue careers in biotechnology or the biomedical sciences. It is also a basis for further graduate training.

B.S. in biotechnology: BIOL-L 112; CHEM-C 117; MATH-M 211 or M 119; one year of foreign language; one College Topics requirement: COLL-E 103 or E 104 (not E 105).

Central Eurasian Studies (CEUS)

The Central Eurasian Studies Department (CEUS) offers two undergraduate programs: (1) an undergraduate minor; and (2) an undergraduate minor with language and area certification. The first program allows maximum flexibility in the fulfillment of minor requirements, while the second pushes more rigor and balance between development of language skills and multidisciplinary knowledge of the regions of specialization.

The Central Eurasian area embraces the languages and civilizations of the peoples originating in the steppes, desert oases, and forests of the Eurasian heartland. Even as they moved out from this heartland into Central Europe, the Middle East, and East Asia, these peoples have continued to be linked by trade, conquest, and history. The following countries can be studied in the Central Eurasian Studies Department: Central Asia (including the former Soviet Republics of Central Asia and Xinjiang in China), Tibet, Mongolia, Afghanistan, Iran, Azerbaijan, Turkey, Hungary, Finland, Estonia.

The undergraduate minor in Central Eurasian Studies requires 15 credit hours of CEUS courses selected in consultation with the CEUS director of undergraduate studies, with a minimum average grade of C. The CEUS undergraduate minor with language and area certification requires a total of 15 credit hours with at least six credit hours in a Central Eurasian language above the introductory level and six credit hours in non-language courses offered by CEUS.

For both programs at least eight credit hours of CEUS classes must be taken at the Bloomington campus and six credit hours must be above the 200 level.

Undergraduates are encouraged to explore Central Eurasia via three College Topics classes (COLL-E 103 Great Wall of China, COLL-E 104 Oil, Islam, and Geopolitics, and COLL-E 104 Religion and Revolutions) or the following CEUS classes: R 191 Introduction to Central Eurasia, R 250 Introduction to the Ancient Near East, R 270 The Civilization of Tibet.

Chemistry (CHEM)

The Department of Chemistry offers four baccalaureate degree programs: the B.A. and B.S. in chemistry and the B.A. and B.S. in biochemistry, and also a minor in chemistry.

The B.S. degree programs in chemistry and biochemistry are designed for students preparing for graduate work or other research work in industry or government laboratories, as well as for medical, dental, and other professional schools. Although these B.S. degree programs are challenging, they provide serious and talented students with the depth and breadth in chemistry and biochemistry, as well as in other sciences, needed for careers in scientific research. The B.S. degrees provide preparation for a wide range of career choices, including research, but also those careers described below under the B.A. programs.

The B.A. degree programs in chemistry and biochemistry are primarily intended for students planning to enter professional schools such as medicine, dentistry, or law, but are also great preparation for careers in business, scientific writing, or teaching. The B.A. programs offer greater flexibility, making it possible to combine the study of chemistry or biochemistry with course work in other fields or additional majors, ultimately providing a more diverse background.

Students desiring basic courses that fulfill requirements for either degree in chemistry or biochemistry and that provide a foundation for advanced work in other scientific fields should take: CHEM-C 117 (or C 103 and then C 117 as advised) and C 341, or the corresponding honors sequence, CHEM-S 117 and S 341.

Recommended first-year courses for a major:

B.A. in Chemistry: CHEM-C 117 and C 341; MATH-M 119 or M 211; one year of foreign language; Topics requirement COLL-E 103 or E 104 are recommended (not E 105).

B.A. in Biochemistry: CHEM-C 117 and C 341; MATH-M 119 or M 211; BIOL-L 112; one year of foreign

language, Topics requirement COLL-E 103 or E 104 are recommended (not E 105).

B.S. in Chemistry: CHEM-C 117 and C 341; MATH-M 211 and M 212; one year of foreign language; Topics requirement COLL-E 103 or E 104 are recommended (not E 105).

B.S. in Biochemistry: CHEM-C 117 and C 341; MATH-M 119 or M 211; BIOL-L 112; one year of foreign language; Topics requirement COLL-E 103 or E 104 are recommended (not E 105).

Classical Studies (CLAS)

Classical studies includes the study of Latin and Greek as well as the study of Greek and Roman culture. The study of Latin or Greek provides rigorous intellectual discipline while offering the student better comprehension of English vocabulary and grammar. Students majoring or minoring in the languages pursue a wide variety of careers, including law, medicine, and teaching at the high school or university levels. Modern education in classics covers a variety of historical records that encompass artistic monuments and works of literature and philosophy. Students interested in classical studies can major in Greek, Latin, or classical civilization, which includes ancient culture, art and archaeology, literature in translation, and history; minors are also available in Greek, Latin, and classical civilization.

Recommended first-year courses for a major:

Classical civilization: one course from CLAS-C 101, C 102, C 205, C 206.

Latin: CLAS-L 100 and L 150 or L 300, L 400 (with department approval) or appropriate placement.

Greek: CLAS-G 100 (fall only) and G 150 (spring only) or appropriate placement.

Cognitive Science (COGS)

Cognitive science explores the nature of intelligent systems. At its core, the program focuses on theories of mind and action. The field is inherently interdisciplinary, with contributions from computer science, psychology, philosophy, neuroscience, linguistics, biology, anthropology, and other fields. Both natural intelligence in humans and artificial intelligence fall within the scope of inquiry. The field deals with aspects of complex cognition, computational models of thought processing, knowledge representation, dynamics of real-world engagement, and emergent behavior of large-scale interacting systems.

Goals of the Cognitive Science Program include a better understanding of mind and cognitive skills and the development of intelligent systems designed to augment human capacities in constructive ways. The program is structured to give students fundamental skills applicable in a wide variety of information-related careers: psychology, neuroscience, artificial intelligence, telecommunications, information processing, medical analysis, data representation and information retrieval, education, scientific research, human-computer interaction, multimedia, knowledge management, and information policy. The skills also have wide applicability in technical and expository writing, mathematical analysis, experimental techniques, and computer programming.

The Cognitive Science Program offers both B.A. and B.S. degrees. Students considering a major in cognitive science should consult with the program advisor during the freshman year. See the Cognitive Science Undergraduate Program web page: www.cogs.indiana.edu/underg.

Recommended first-year courses for a major: COGS-Q 240, COGS-Q 250, CSCI-C 211, LING-L 103, PHIL-P 100, PHIL-P 105, PSY-P 101 (or P 155 or P 106), COLL-E 104 "Brains and Minds, Robots and Computers."

Communication and Culture (CMCL)

The Department of Communication and Culture advances the study of communication as a cultural practice and teaches an array of perspectives that enable students to prepare broadly for a variety of careers. Requirements for the major and minor are flexible in order to promote individualized programs of study that draw on departmental foci in rhetoric and public culture, film and media, and performance and ethnography.

Rhetorical studies orient students to the strategic dimension of human communication associated with deliberation, advocacy, and persuasion in a variety of social, political, and professional settings. Studies of media focus primarily on film and television, with additional emphasis on topics such as radio, recorded music, and interactive digital technologies. Performance and ethnographic studies explore an array of communicative practices, from the conversations and disputes of everyday life to artful performances at cultural events, which are the competencies essential for participation in social life. They also bring intercultural and transnational considerations into focus by examining how diversity and differences of various kinds are negotiated across boundaries. Together, these three dimensions examine communicative practices across the corporate, social, political, visual,

and ideological dimensions of culture. They provide a strong grounding in the history, theory, production, and critique of communication, whether in the form of interpersonal dialogue, storytelling, political discourse, film, or television.

Recommended first-year courses for a major:
CMCL-C 190, C 205.

Comparative Literature (CMLT)

This major introduces students to the study of literature in different ages and across national, linguistic, and cultural boundaries. Students learn about texts, themes, literary types, and intercultural relations as well as the methods and theories of comparative literary study. Courses explore relationships between literature and the visual arts, film, music, and other performance arts as well as other disciplines, such as philosophy, history, and religious studies. All readings are in English. Majors may choose from our course offerings according to their particular interests.

Recommended first-year courses for a major:
CMLT-C 145 and C 146 (taught in conjunction with ENG-W 143) to fulfill the English Composition requirement. Students who have already fulfilled this requirement should take CMLT-C 205 and any other Comparative Literature course at either the 100 or 200 level. Those interested in majoring in Comparative Literature should also begin work on the College of Arts and Sciences foreign language requirement in their first year.

Computer Science (CSCI)

Computer science forms the conceptual foundation of the information revolution and spans a broad spectrum of fields, ranging from mathematical foundations to user applications. A high level of computer literacy is an essential component of any well-rounded education and is increasingly an indispensable part of all professional careers.

Students may pursue a B.A. in computer science through the College or a B.S. through the School of Informatics and Computing (see p. 34). For students interested in either of these programs, the starting point is CSCI-C 211, followed by CSCI-C 212, or their honors versions. First-year students interested in majoring in computer science should take MATH-M 211 (or the preparatory course, MATH-M 027) and CSCI-C 211 during their first year.

The College offers a minor in computer science. To earn a minor in computer science, a student must take CSCI-C 211, CSCI-C 212, CSCI-C 241, and either CSCI-C 335 or CSCI-C 343.

Criminal Justice (CJUS)

The Department of Criminal Justice (CJUS) focuses on social norms, rules, and laws; the causes of their violations; and the social and legal response to these violations. Systems of regulation, including the criminal justice system and dispute resolution processes, are studied and evaluated as organizational, social, and cultural processes.

Criminal justice is an interdisciplinary field that draws on the social sciences, legal studies, and the humanities. Teaching and research are carried out by a diverse group of scholars trained in criminal justice and criminology, law, history, political science, anthropology, sociology, geography, and psychology. The degree is designed for students interested in studying justice-related issues, including law.

The department provides students with a liberal arts education to assist them in understanding problems of crime, law, and social control systems. A major in criminal justice provides an excellent foundation for careers and graduate work in law, social work, journalism, government, research, or community service. Working with the department's multidisciplinary faculty, students also may prepare for positions in law enforcement, criminal justice management and administration, and corrections.

Recommended first-year courses for a major:
CJUS-P 100, P 200 or P 202.

East Asian Languages and Cultures (EALC)

The Department of East Asian Languages and Cultures is a multidisciplinary and multicultural department that aims to provide students with an enhanced understanding of Chinese, Japanese, and Korean languages and cultures. The department offers a wide range of culture courses, open to nonmajors, that deal with virtually every facet of the cultures of East Asia. Language courses in Chinese, Japanese, and Korean are offered from beginning to advanced levels.

Two majors and two minors are offered. The majors differ in the amount of language required and in the specificity and range of culture courses allowed. There is a language minor in Japanese, Chinese, or Korean, and a minor in East Asian studies, which requires no language training. As part of the baccalaureate training, we encourage students to study abroad in China, Japan, or Korea on one of IU's overseas study programs.

Students who have mastered the languages of China, Japan, or Korea and have a corresponding understanding of their cultures are in high demand in both business (especially international communications

and finance) and government and diplomacy, not to mention a variety of nonprofit organizations. In addition, there are more opportunities each year for teaching the East Asian languages in high schools.

Recommended first-year courses for a major:

Language and culture: language course determined by placement exam, or C 101 (Chinese), J 101 (Japanese), or K 101 (Korean) for absolute beginners. E 200, required for majors, should be taken as soon as is practical.

East Asian studies: Any 200-level EALC-E course or language course listed above. E 200, required for majors, should be taken as soon as is practical.

Economics (ECON)

Economics is the study of how individuals and societies manage their scarce resources—people must decide how much they work, what they buy, how much they save, and how they use their leisure time. Most societies use decentralized markets as the primary means of allocating resources, so economics gives students insight into how markets function in coordinating the activities of many and diverse buyers and sellers. Economics also analyzes the trends and forces that affect the economy as a whole, including growth in average income, the portion of the labor force that cannot find work, and the rate at which prices are rising. A major in economics provides excellent preparation for graduate and professional school and for rewarding careers in consulting, finance, and other private and public sector employment.

The department offers course work in several areas of economics, including financial economics, money and banking, public finance, international economics, economic development, industrial organization, game theory, and economic history.

Students interested in economics should begin their study with ECON-E 201. Discuss your readiness for this course with your advisor.

Recommended first-year courses for a major: MATH-M 118; MATH-M 119 (or MATH-M 211).

Preparation for graduate study in economics requires a strong math background. Students interested in graduate school in economics should take MATH-M 211 or M 213 rather than M 119, and should consult with the Department of Economics undergraduate advisor during their first year regarding other recommended mathematics courses.

INTERDEPARTMENTAL MAJOR IN ECONOMICS AND POLITICAL SCIENCE OR IN ECONOMICS AND MATHEMATICS

Students interested in combining political science and economics study or mathematics and economics study can select an interdepartmental major including courses in both areas.

English (ENG)

The Department of English offers courses in all periods of English and American literary history, in major authors, in writing, in language, in film, in creative writing (fiction, poetry, and creative nonfiction), and in relationships between literature and such other disciplines as psychology, philosophy, and history. Courses are also offered in the areas of women and literature, Jewish literature, and professional writing.

The English program is flexible, allowing students to concentrate in areas of their choice. The department offers several ways for students to satisfy the composition requirement. ENG-W 170 is a particularly appropriate avenue for students to follow if they are considering English as a major. The department also offers a wide variety of courses open to first-year students who have completed their English composition requirement. To count toward major requirements, English course work must be at the 200 level or above. ENG-L 202 Literary Interpretation can be taken by well-prepared freshmen. A variety of other 200-level courses can also be considered, including ENG-W 231, a sophomore-level course that focuses on writing argumentative essays.

Recommended first-year courses for a major: ENG-W 170, one 200-level literature course, or a creative writing course.

Environmental Science

The B.S. in Environmental Science (B.S.E.S.) stresses a strong background in scientific and mathematical skills to prepare students to work toward solutions to the world's complex environmental problems. Students interested in an applied science degree with the potential for significant impact should consider this degree. A joint degree from the College of Arts and Sciences and the School of Public and Environmental Affairs, it is the only undergraduate degree with this administrative system, and one that takes advantage of the strengths of both academic units.

A specific B.S.E.S. area of concentration is usually declared after the first year of study. This decision is made in consultation with the program director. One of the following areas of concentration may be selected: atmospheric science, ecosystem science, general

environmental science, hydrology and water resources, mathematical modeling, pollution control technology and remediation, and surficial processes.

Some recommended courses for the first year for students considering the B.S.E.S. major: BIOL-L 111, CHEM-C 117 (consult advisor for proper placement), MATH-M 211, and one course in the physical sciences such as GEOG-G 107, GEOL-G 105 or GEOL-G 171.

Fine Arts (FINA)

Three undergraduate degrees are offered by the Henry Radford Hope School of Fine Arts: the Bachelor of Arts (B.A.) in art history, the Bachelor of Arts (B.A.) in studio art, and the Bachelor of Fine Arts (B.F.A.) in studio art.

Students may also complete a Bachelor of Arts (B.A.) with a double major in art history and studio art or a major in one area and a minor in the other.

The B.A. in art history is designed 1) to introduce students to the significant developments in the history of art, examining the major artistic achievements within the context of the period and culture in which they were produced; and 2) to train students in the discipline and methods of art history.

Both the B.A. and B.F.A. degrees in studio art enable students to develop visual perception; to gain a command of tools, techniques, and materials; to analyze, organize, and interpret elements of concepts; and to create visual expressions that are integrated and complete. The B.F.A. degree, designed to meet the needs of students with demonstrated superior ability and motivation, requires twice as many credit hours of studio courses as the B.A. The requirements for the B.A. and B.F.A. studio degrees are identical for the freshman and sophomore years, however.

Recommended first-year courses for a major in art history: FINA-A 101 and/or A 102, A 155, A 160.

Recommended first-year courses for a major in studio art: Two courses from FINA-F 100, F 101, F 102; FINA-A 101 and/or A 102.

Folklore and Ethnomusicology (FOLK)

The folklore/ethnomusicology major includes the study of performance, specific cultures and regions, human diversity, world view, and research methods. The major emphasizes fieldwork methods through which students gain skills in observation, analysis, documentation, reporting, and multicultural understanding.

Folklore is the study of the world's expressive culture; the study of art in culture. Folklorists study tradition and innovation, looking at both groups and individuals, by focusing on creativity in everyday life, including customs, celebration, festivals, stories, jokes, dance, architecture, food, car art, and body art.

Ethnomusicology is the study of music of all types and from all cultures. Ethnomusicologists not only listen to the sounds of music, but also inquire into people's ideas and beliefs about music. Ethnomusicologists explore the roles of music in human life and analyze relationships between music and culture.

Recommended first-year course for a major: FOLK-F 101, F 111, F 121, or F 131.

French (FRIT)

A major in French allows students to explore the rich culture and history of France and francophone countries throughout the world. The French program provides excellent academic preparation for many professions in various fields, including education, business, travel, and publishing. The department offers a broad selection of courses in French literature, language, and culture, from the medieval troubadours to post-colonial Africa.

FRIT-F 200 Second Year French I is the first course that counts toward the French major. Students with at least third-year proficiency in French by junior year should consider foreign study with the Office of Overseas Study in Aix-en-Provence or Paris. Interested students should begin to consider this option during the freshman year to arrange their schedules for their junior year abroad or for a future summer in France.

Recommended first-year courses for a major: FRIT-F 100 and F 150, or a placement-level course.

Gender Studies (GNDR)

The Gender Studies Program offers exciting, interdisciplinary, and rigorous courses that concentrate on the position of women and men across many cultures. Masculinity and femininity, often referred to as gender, have evolved throughout history and are still evolving. Gender is a feature of all known cultures and is subject to continual reinterpretation and wide cross-cultural variation.

Gender studies courses explore issues related to gender across academic subjects. They examine sexuality, the body, race and class, business and politics, health, developing societies, artistic movements, academic institutions and knowledge, sports and leisure, law, the media, and many other areas.

The major or minor complements and enhances the content of other courses and majors.

Graduates find occupations in human resources management, public relations, advertising, or the media. Others may become lawyers, doctors, journalists, social workers, or psychologists. Still others will work in law enforcement, education, welfare, the arts, public administration, and international aid organizations. Graduates will also be prepared to enter the full range of graduate and professional education. Visit the IU Gender Studies web page: www.indiana.edu/~gender.

Recommended first-year course for a major:
GNDR-G 101.

Geography (GEOG)

Courses offered by the Department of Geography form an important component of liberal education and also provide skills and knowledge necessary for careers in both the private and public sectors. The undergraduate program reflects the breadth of geography and its linkages to other social and physical sciences. Concentration areas are in atmospheric science, geographic information science (GIS), human geography, human-environment interaction, and sustainable systems. Students may focus on more than one concentration area. The B.A. degree program provides a strong liberal arts education focusing on the major subject areas of geography while maintaining a great deal of flexibility. The flexibility allows students to focus on particular concentration areas and/or to choose a second major. The B.S. degree provides additional science requirements that prepare science-oriented students for graduate school and science-related jobs at the bachelor's degree level. Students pursuing a B.S. degree focus on either the atmospheric science or the GIS concentration.

Visit the program's web page: www.indiana.edu/~geog.

Recommended first-year courses for a major:
GEOG-G 107 or G 109; GEOG-G 110 or G 120, G 208, G 235, G 237.

Geological Sciences (GEOL)

The Department of Geological Sciences offers a large number of courses that serve as excellent introductions to earth processes that directly affect humanity with application to such problems as pollution of the environment, groundwater flow, and natural hazard assessment and preparedness (earthquakes, volcanoes, etc.). Many pressing environmental issues are related to basic processes best explored and understood through

the geological sciences. Other courses emphasize the earth as a member of the solar system, the origin of life, and earth materials. Interested students may pursue these themes further on a topical basis or consider a minor or major in geological sciences.

Students interested in a concentration in the geological sciences have several alternatives, which include the B.A. degree or the minor. Both of these options offer maximum flexibility in the selection of courses that can complement, and thereby strengthen, a broad range of disciplines from anthropology/archaeology to business and economics, and from environmental issues or water and energy resources to eco-tourism. The requirements enable students to obtain a minor or double major in geological sciences with comparatively little advanced planning, which can enhance their major in a related field, and simultaneously satisfy the N&M course distribution requirement.

The B.S. degree provides a solid foundation in geological sciences that equips students to build a professional career in the earth or environmental sciences, leading to employment in industrial, governmental, or instructional positions, or to advanced study.

Recommended first-year courses for a major:

B.A. in geological sciences: either GEOL-G 111 or G 112; or GEOL-G 103, G 104, G 105.

B.S. in Geological Sciences: either GEOL-G 111 or G 112; or GEOL-G 103, G 104; MATH-M 211 and M 212; CHEM-C 117 (preceded by C 103 if necessary); one year foreign language; one College Topics requirement: COLL-E 103 or E 104 (not E 105).

Germanic Studies (GER)

The department offers courses in Dutch, German, Norwegian, and Yiddish language, literature, and culture—including several courses taught in English.

Requirements are flexible, allowing students to emphasize language, linguistics, literature, or culture. German majors often complete a double major, adding study of another field to that of German.

There are opportunities to study abroad, including a full-year or spring term program in Freiburg, Germany, and a summer program in Graz, Austria.

Recommended first-year courses for a major:
GER-G 100, G 105, or placement-level course.

Entering students with previous study of German should take a language placement test to determine appropriate level for German-language courses. Those with no previous background should begin with

GER-G 100 or GER-G 105. All students may enroll in GER courses with an E prefix.

History (HIST)

Studying history gives students the opportunity to discover the origins of today's issues, events, and ideas. History provides an understanding of how change takes place and why some things stay the same. History welcomes different approaches to the past, including the study of individuals, populations, cultures, and social movements. Among liberal arts majors, history graduates stand out as experts in recognizing and analyzing patterns of information. History majors become skilled in formulating significant questions, finding and evaluating evidence, and analyzing a problem from multiple perspectives and methods. Training in history gives students important skills such as critical analysis, research, and clear and persuasive writing that are applicable across all disciplines and in many professions. The major allows students to concentrate on their particular interests while giving them a context in which to understand them.

The department offers courses on nearly every area of the world—from the United States and Western Europe to Africa and the Near East and East Asia. Freshmen may begin with introductory courses in American History (HIST-H 105–H 106), European History (HIST-H 103–H 104), or with HIST-H 101–H 102 The World in the Twentieth Century.

Region and time are only two distinguishing features of the department's course offerings. At both the 100 and 200 levels, students will find courses that approach the past from the perspective of a special group (for example, H 205 Ancient Civilizations), a special problem (such as H 213 The Black Death), or a special theme (as in HIST-A 200 Gender and Sexuality in U.S. History).

Students who graduate with a degree in history have a world of opportunity awaiting them. Many go on to graduate programs in law, education, history, business, journalism, and public relations. Others decide to go directly into either private or public sector careers. History majors receive a broad-based, yet practical, liberal arts education.

Recommended first-year courses for a major: 3-6 cr. in 100- and/or 200-level history courses. For additional information about major requirements, visit the Department of History undergraduate web page at: www.indiana.edu/~histweb/ugrad.

History and Philosophy of Science (HPSC)

The Department of History and Philosophy of Science (HPSC) is concerned with the structure and development of the natural, social, and medical sciences and the interplay between science and society. The department provides a diverse set of courses for undergraduates interested in the foundations of scientific knowledge, scientific methods and practices, the rise of science and medicine from their origins to the present, and the social and intellectual impacts of science and medicine.

At present there is no major, but students can receive an area certificate (Culture of Science and Medicine) or earn a minor. Those wishing to pursue study specifically in this area can do so through the Individualized Major Program.

The area certificate involves several different tracks: (1) Life Sciences, Health, and Disease; (2) Physics, Technology, Computation, and Cognition; (3) Science, Society, and Culture; (4) The Nature of Science. Students interested in the certificate should select either the introductory survey course offered every semester under the course number X102 or the Topics course relevant for their chosen track (COLL-E 103, E104, E105).

Recommended courses for students interested in this field: HPSC-X 100, X 102, X 110, X 123, X 126, and X 200. There are other 200-level courses that might be appropriate for freshmen—check with your advisor.

Human Biology (HUBI)

Students in human biology explore the social, biological, cultural, and ethical dilemmas that underlie the significant challenges facing humanity today. To do this, students work collaboratively in a problem-based core curriculum that supports an interdisciplinary understanding of the human condition. The major is appropriate for students considering careers in medicine or other health professions, the life science industries, government, public policy, law, journalism, education, and research.

Human biology offers two degrees, the B.A. and the B.S., and an area certificate. Visit the human biology website for more information: www.indiana.edu/~humbio.

Recommended first-year courses for the major: HUBI-B 200; for students considering the certificate: MSCI-M 131.

India Studies Program (INST)

Modern India represents a cluster of cultures and civilizations whose 1 billion inhabitants make up nearly 20 percent of the total population of the world. As a modern nation-state, India has the third-largest military in the world, stands about twelfth among nations of the world in gross national product, and is about fifteenth in industrial production. It is also the cradle of many of the world's religions (Hindu, Buddhist, Jain, Sikh) as well as many of the great cultural-historical periods in the development of civilization (including the Hindu-Brahmanical, Buddhist, Muslim, Sikh, and modern Indo-British). The Indian community is the fourth wealthiest community in the United States, with several thousand members living in Indiana.

This program offers undergraduates the options of a major, minor, and certificate.

The core introductory course is INST-I 310. Students majoring in India studies will be required to complete 28 credit hours in the area and pursue a second major within the College or a second degree from one of the professional schools. The minor requires a total of 15 credit hours and offers specializations in three areas: literary and performance studies; philosophical and religious studies; or social, political, and historical studies. See advisor for certificate requirements.

Recommended first-year course: INST-I 310.

Individualized Major Program (IMP)

The Individualized Major Program is a College of Arts and Sciences Bachelor of Arts program that enables students, working closely with their faculty sponsors, to create interdisciplinary majors tailored to their own particular interests and goals. IMP majors normally combine regular courses from several departments with independent, tutorial work and/or internships devised and carried out in collaboration with the students' faculty sponsors.

Tutorials are one of the most attractive features of the IMP. Students have the opportunity to include up to 15 credit hours of tutorial work in the major. Tutorials may be one-on-one courses on campus, where the student works closely with a faculty member on independent reading, learning special skills, or supervised research. In a typical pattern, nearly one-quarter of the total credit hours for graduation will come from tutorials, the rest being in regular classroom courses. The student is responsible for arranging any tutorial he or she chooses to take. These may be independent reading, learning special skills, or supervised research. Or they may involve off-campus activities, such as fieldwork and internships. Students have earned tutorial credit for projects such as anthropology fieldwork on a Navaho

reservation, an internship with a member of Congress, collecting folk songs in Ireland, excavating dinosaur bones, researching the cooperative political movement in Italy, and studying language and dance in Bali.

Final Project: A final project is normally the culmination of the IMP student's independent learning path. It may take one of a large variety of possible forms: a scholarly paper or an analysis of field research; a performance, film, exhibition, or multimedia presentation; or an internship central to the student's program. Whatever form it takes, the project helps to show how the student has fulfilled the educational goals set out in the student's program of study.

Examples of majors that have been carried out under the auspices of the Individualized Major Program include fashion design, musical theatre, animal behavior, environment/human interactions, human sexuality, medical illustration, arts administration, film/video production, community education, paleobiology, peace studies, civil and human rights, screen writing, Latin American culture, dispute resolution, multimedia studies, public relations, art therapy, underwater archeology, and many others.

IMP graduates have had very good success in applying to professional and graduate schools. The IMP attracts highly motivated, independent students with intellectual and creative interests that cannot be served within a single department. Such students often fashion their own careers. For example: Will Shortz is the crossword puzzle editor for the *New York Times* and puzzlemaster for NPR's *Weekend Edition*.

International Studies (INTL)

This major is an excellent choice for students who are interested in meeting the unprecedented global challenges of the twenty-first century, challenges that require all of us to have greater knowledge of the languages and cultures of the world. Students wishing to acquire additional expertise and fluency in a particular discipline or area study are able to couple the international studies major with a second major or with minors and certificates. With careful planning, students choosing degrees from a professional school (such as Journalism; Kelley School of Business; Jacobs School of Music; Education; Public and Environmental Affairs; and Health, Physical Education, and Recreation) can add international studies as a second degree program.

Major requirements are broadly constructed to allow flexibility as well as depth. Courses for the major are organized in five parts—core courses, electives in one thematic concentration (see below for the concentrations offering freshman courses), electives in one regional concentration, a language requirement (two semesters

in addition to the College's foreign language requirement but not necessarily in the same language), and a senior capstone seminar. Overseas study or an internship with an international dimension is also required. The freshman year is a good time for students to begin taking a language that is spoken in the country where they might later choose to study overseas.

Recommended first-year courses for the major: INTL-I 100 Introduction to International Studies and courses depending upon your interests from the following thematic concentrations: Culture and the Arts INTL-I 201, I 202 Health, Environment, and Development (INTL-I 202, GEOG-G 208, REL-R 236), I 103 Global Integration and Development (INTL-I 203 and ECON-E 201, E 202 are recommended as prerequisites for upper-division courses), Human Rights and Social Movements (INTL-I 204), International Communications (INTL-I 205 and CMCL-C 202), Nations, States, and Boundaries (INTL-I 206 and GEOG-G 210). Also, 100- and 200-level courses from the various area studies and departments are recommended as preparation for the upper-level courses that are required for the major. See advisor.

For more information on a major or a minor in International Studies, see www.indiana.edu/~intlweb.

Italian (FRIT)

The study of Italian language and civilization opens the doors to a rich and fascinating country with widespread influence on western culture, including the United States. The Italian program offers a wide variety of language, literature, and culture courses in Italian, as well as courses in English on topics ranging from Dante and the Renaissance to contemporary Italian cinema. Freshmen may begin their language studies with FRIT-M 100-M 150; those students with previous work in Italian may place into courses above this level.

A major in Italian or double major in Italian and another area provides excellent academic preparation for work in the humanities, in the social sciences, and in music and the fine arts. Students with an interest in the Italian major should contact the Director of Undergraduate Studies as soon as possible in their academic career. Study abroad through the IU Overseas Study Program in Bologna or Florence is recommended not only for Italian majors, but also for those in other fields. Interested students should begin to consider this option during the first year of study to arrange their schedule for their junior year abroad or for a future summer in Italy.

FRIT-M 200 Second-Year Italian I is the first course that counts toward this major.

Recommended first-year courses for a major: FRIT-M115 or FRIT-M 100 and M 150, or at the 200 level, FRIT-M 200 and M 250.

Jewish Studies (JSTU)

Jewish Studies is the study of the Jews and Judaism. It is open to students from all backgrounds. Because Jewish culture is multilingual and multicultural, its study is an excellent way to obtain a good liberal arts education. Students can pursue a major, a certificate, and/or a Hebrew minor in Jewish studies. Students interested in Jewish studies should see the Jewish studies advisor during the freshman year, and preferably the fall semester. Call (812) 855-0453.

The Jewish Studies major (JSTU) has as its objective the study of Jewish civilization from antiquity to the present and its interaction with and impact on world civilization. The various facets of Jewish culture—literature, history, religion and philosophy, and languages—comprise one of the richest complexes within the whole of recorded cultural history. The major draws on these many disciplines to study the Jewish experience and civilization. Because of the interdisciplinary nature of the Jewish Studies Program, students enrolled in the B.A. or certificate program have the opportunity to structure course work individually, according to their specific area or areas of interest.

Recommended first-year courses for a major: Modern Hebrew (JSTU-H 100—fall and H 150—spring) or test into a higher level—JSTU-J 200 (fall), H 250 (spring), H 300 (fall), or H 350 (spring); or Biblical Hebrew; or Yiddish (GER-Y 100—fall and Y 150—spring); JSTU-J 251 Introduction to Jewish History: From the Bible to Spanish Expulsion (fall) and JSTU-J 252 Introduction to Jewish History: From Spanish Expulsion to the Present (spring); COLL-E 103 (Jewish Studies topics in fall: Power, Politics, and Piety: The Struggle for the Holy Land in Israel/Palestine, or What Makes It Jewish?, or Theism, Atheism, Existentialism.)

If you are interested but do not intend to major in this area, consider enrolling in one of the Jewish languages (see above) and/or taking JSTU-J 251 (fall), JSTU-J 252 (spring), one of the three COLL-E 103 fall courses (see above for titles), and/or JSTU-J 203 Arts and Humanities Topics in Jewish Studies (two sections: David: the Man and King, or Women in American Jewish History (both fall), JSTU-J 204 Social and Historical Topics in Jewish Studies (topic: History of Zionism) (fall). Additional courses will be listed for spring 2011 on the Jewish Studies web page in late October 2010.

For more information, see the Jewish Studies website at www.indiana.edu/~jsp/.

Liberal Arts and Management Program (LAMP)

For students in the Liberal Arts and Management Program, one perspective is never enough. No matter what field you plan to enter—from advertising to foreign service to medicine—an understanding of management is crucial for success. You, too, can combine your passion for the arts and sciences with courses in management. LAMP will connect you with students and faculty from different disciplines—bringing many perspectives—and offer you a dynamic, deeply thought-provoking, and realistic preparation for life's work.

An interdisciplinary certificate program offered by the College of Arts and Sciences in cooperation with the Kelley School of Business, LAMP allows you to integrate any major in the College with specialized training in management. LAMP students take courses in business law, accounting, management, and computer applications in the Kelley School of Business, as well as economics courses in the College. Through interdisciplinary LAMP seminars, students integrate their course work to solve real-world problems and analyze relationships between business and society.

If you have a strong academic background, wide interests, and leadership potential, we invite you to apply to this honors-level program in the spring of your freshman year. Approximately 100 students are admitted to LAMP each year. Admission requires a minimum cumulative GPA of 3.0, and students in the program must maintain a cumulative GPA of at least 3.3. LAMP can be your ticket to a dynamic university experience that provides crucial skills that you'll need to succeed in work and life.

Students interested in LAMP are encouraged (but not required) to take ECON-E 201 and E 202 in addition to taking English composition, mathematics, and a foreign language.

Contact the academic advisor at the Liberal Arts and Management Program, Wylie Hall 245, (812) 856-4966 or lamp@indiana.edu, or consult the LAMP website at www.indiana.edu/~lamp.

Linguistics (LING)

Linguistics is the scientific study of language in communication and of human beings' ability to assign meaning to sounds and symbols. Introductory courses in language and linguistics are offered, as well as advanced courses leading to a major. The introductory courses give the student an understanding of both language structure and meaning. Varieties of speaking, such as regional dialects, social dialects,

gender differences, and the languages of politics and religion, are also examined. Other courses deal with the acquisition of language by children, the nature of language change, and the properties of some of the world's major languages. The department also offers courses in African languages.

Of interest to University Division students are LING-L 103 Introduction to the Study of Language, any of the L 100-L 300 series courses, and beginning African languages.

International students should receive information about SLST-T 101 English Language Improvement. Placement in SLST-T 101 is determined by results of the Indiana English Proficiency Test, administered upon students' arrival in Bloomington. For more information about English for non-native speakers, contact the Department of Second Language Studies, Memorial Hall 313, (812) 855-4974.

Recommended first-year courses for a major: LING-L 103, L 112, L 113, L 210, L 303, L 306, L 315, L 367.

Mathematics (MATH)

Mathematics is fundamental for science, business, engineering, and computers. The study of mathematics develops problem-solving skills that can be applied to many situations. Math classes include students majoring in other subjects, students with a mathematics minor, and students majoring in mathematics.

The department has five degree programs. The B.A. program offers a broad liberal arts education while encouraging a minor or second major. The B.S. program II, by requiring a concentration of courses in an outside field, serves students intending to pursue careers or graduate work in mathematically intensive fields such as applied mathematics, business, economics, government, natural and physical sciences, and psychology. The B.S. program I also serves this career role, but emphasizes more mathematical theory, and prepares students for graduate work in mathematics. The Interdepartmental B.A. degree in Mathematics and Economics is especially valuable for a future in finance or in graduate Economics programs. The five-year B.S. in Mathematics and Master of Science in Education program combines one of the above B.S. degrees with a master's degree and a secondary teaching certification.

The calculus sequence MATH-M 211-M 212 is the normal starting point for all majors and minors. With departmental consent, students with superior ability may choose to take Honors Calculus, MATH-S 212, while well-prepared students may take Accelerated Calculus, MATH-M 213.

ACTUARIAL STUDIES WITHIN A MATHEMATICS DEGREE

Actuaries use mathematics and financial theory to determine the financial effect that uncertain events such as birth, death, fire, accident, and illness have on insurance and benefit plans. It is possible to design a program within the B.A. or B.S. degree—including courses in economics, computer science, and business—that will prepare a student for entry into the actuarial profession.

Recommended first-year courses for a major:

B.A. in Mathematics: MATH-M 211 and MATH-M 212.

B.S. in Mathematics: MATH-M 211 and M 212, or MATH-M 212 and M 303, or MATH-S 212 and S 303.

Near Eastern Languages and Cultures (NELC)

The department offers courses in Middle Eastern languages, literatures and civilizations. Students can major either in the language track by taking three years of their major language and five additional courses chosen with the consent of the undergraduate advisors, or they can major in the culture track by taking two years of a language and courses in this department to complement programs in history, folklore, fine arts, political science, anthropology, religious studies, and other areas.

The department also offers an undergraduate minor. Students can choose to minor in Arabic, Kurdish, Persian, Turkish, or in Near Eastern civilization. Each minor requires 15 credit hours, passed with a grade point average of C+ or higher. For more details, contact the undergraduate advisor at (812) 856-7039.

Recommended courses for the first year for students considering a major: one year of major language.

Philosophy (PHIL)

Philosophy is a reasoned pursuit of fundamental truths, a quest for understanding, and a study of principles of conduct. Philosophy seeks to establish standards of evidence, to provide rational methods for resolving conflicts, and to create techniques for evaluating ideas and arguments.

PHIL-P 100 is a general course emphasizing philosophical problems. Many other courses in philosophy are open to first-year students. Several are in the history of philosophy and focus on the writings of important philosophic figures. Others explore logic, scientific and everyday reasoning, ethics, social and political philosophy, or phenomenology and existentialism.

The department encourages majors to take one 100-level course other than PHIL-P 105 or P 150 during the first year, and at least one 200-level course in philosophy during the second year.

INTERDEPARTMENTAL MAJOR WITH POLITICAL SCIENCE

These fields enjoy significant overlap in the history of ideas, political and applied philosophy, and public affairs. This flexible major enables students to pursue an integrated course of study covering the intersection between these fields. Enhancing preparation for law and graduate school, it promotes integration of social sciences and humanities in a way likely to be useful for many other career choices as well. Contact either department for details.

INTERDEPARTMENTAL MAJOR WITH RELIGIOUS STUDIES

Many students are interested in topics at the borderline between these disciplines. This major produces graduates who are culturally informed and skilled at close reading, careful writing, and critical thinking. It is sound preparation for various careers and for graduate or professional education. Either department may be contacted for details.

Recommended first-year courses for a major: One course from PHIL-P 100, P 103, P 135, P 140, P 145, P 240, or P 270.

Physics (PHYS)

The Department of Physics offers a wide variety of courses for freshmen. In particular, there are several exciting courses designed especially for liberal arts or non-science students. These courses include PHYS-P 101 Physics in the Modern World, P 105 Basic Physics of Sound (with modern electronic applications), P 110 Energy, P 114 The Invisible Universe, P 120 Energy and Technology, and P 150 How Things Work.

The physics department offers a B.A. and a B.S. degree in physics and a B.S. degree in applied physics. Special requirements for the B.S. degree are detailed in the College of Arts and Sciences Bulletin.

The beginning sequence for physics majors is PHYS-P 221 and P 222. MATH-M 211 and M 212 are co-requisites for PHYS-P 221 and P 222 respectively. There is a special, highly interactive honors section of PHYS-P 221 and P 222 for freshmen particularly interested in majoring in physics or pursuing research careers in another area of science. Prospective physics majors are strongly encouraged to consult with the Department of Physics undergraduate advisor, Scott

Wissink, at (812) 855-5192 or wissink@indiana.edu and to start the P 221-P 222 sequence in their freshman year.

Recommended first-year courses for a major:

B.A. in Physics: PHYS-P 221 and P 222; MATH-M 211 and M 212.

B.S. in Physics or Applied Physics: PHYS-P 221 and P 222; MATH-M 211 and M 212.

Political and Civic Engagement (PACE)

PACE is an interdisciplinary, 25-credit undergraduate certificate program which combines academic study with hands-on learning to give students an education in democratic citizenship.

The PACE curriculum develops communication, organization, decision-making, critical thinking, and leadership skills to prepare for a lifetime of participation in political and civic life.

PACE motivates students to be knowledgeable, effective, and committed citizens. Through PACE students study and take part in a wide range of political and civic organizations: advocacy groups; nonprofit agencies; political campaigns; branches of local, state, and national government; community organizations; and the media. Because of the required internship, mentored by PACE staff and field supervisors, as well as intensive professional development completed in the capstone course, PACE students are ready to work in political and civic organizations right after graduation, and to pursue post-graduate education in law, public policy, education, business, the media, social work, and many other fields. PACE also enhances the education of students headed toward careers in other areas such as health care or the arts who want to be engaged citizens.

In PACE, students can learn to: seek out various perspectives, engage in dialogue, analyze the effectiveness of policies, take principled stands on vital public issues, understand the relationship between theory and practice, develop informed critiques of political and civic institutions, practice collective decision making, work with those who hold opposing views, and devise effective solutions to public problems.

The PACE Certificate can be combined with any major offered by the College of Arts and Sciences and with undergraduate degree programs in other schools including Business, Informatics, Journalism, and Social Work.

Any undergraduate at Indiana University Bloomington interested in gaining an education in democratic citizenship can apply to PACE.

It welcomes the participation of students with a record of active engagement in political or civic activities as well as those who seek to become engaged. Most students apply to the program during the second semester of their freshman year or the first semester of their sophomore year. Students should discuss the course sequencing with PACE staff early in their studies at IU. See more details at the website: <http://pace.indiana.edu>, or contact pace@indiana.edu, (812) 856-1747, Franklin Hall 004C.

Political Science (POLS)

Are you interested in American politics and law? International affairs? Critical issues such as welfare reform, the environment, wars, and health policy? How we get the kinds of leaders we do, and why? What makes government just? If you are, you should take political science courses. Political science is the study of government and public policy and the political behavior of individuals and groups. Political science uses both humanistic and scientific perspectives and skills to examine the United States, all countries and regions of the world, international relations, and political norms and values.

Political science majors qualify for careers in the private and public sectors. The most frequent types of careers chosen by majors are in the fields of law, education, business, public service (including elected and appointed office), and communications.

A variety of 100- and 200-level courses with no prerequisites are offered for entry-level students. Students with unusually strong preparation in American government and politics are eligible to take a special-credit examination for Y 103 American Politics, which is given each semester.

Recommended courses for the first year for students considering a major: One course from POLS-Y 103, Y 105, Y 107, Y 109, Y 200, Y 202, Y 205, or Y 211. POLS-Y 205 is a required course for all students majoring in political science who matriculate after spring 2006. It is strongly recommended that POLS-Y 205 be taken in the first 15 credit hours of course work in political science.

INTERDEPARTMENTAL MAJOR IN POLITICAL SCIENCE AND ECONOMICS OR IN POLITICAL SCIENCE AND PHILOSOPHY

Students interested in combining political science and economics study or political science and philosophy study can select an interdepartmental major.

Political science/economics majors who are qualified to take ECON-E 201 / E 202 as freshmen should do so and begin their study of political science with POLS-Y 200, Y 204, Y 205, or Y 210 as their schedules allow. Those

who need to take ECON-E 201 / E 202 as sophomores may take POLS-Y 200 as freshmen. POLS-Y 204 is inappropriate for most freshmen.

Political science/philosophy majors should take both POLS-Y 105 and one PHIL course at the 100/200 level during their freshman year. Only one 100-level PHIL course counts in this major.

Psychological and Brain Sciences (PSY)

The department offers a major in psychology leading to the B.A. or B.S. degree, a B.S. degree in neuroscience, and course work for undergraduates who wish to satisfy distribution requirements. As a science, psychology seeks to understand the basic principles by which living organisms adapt their behavior to the changing physical and social environments in which they live. The breadth of the discipline, with its links to the humanities, mathematics, and other social and natural sciences, encourages the development of broad problem-solving skills through exposure to experimental methodology and statistical analysis and contributes to the development of communicative skills. Psychological knowledge, techniques, and skills are applied in many careers and provide background for students entering graduate work in psychology and related areas, as well as the professions of medicine, dentistry, law, and business.

The B.A. program provides broad coverage of modern scientific psychology and the strategies and tactics by which knowledge is acquired in this field. It also requires sufficient background in science and psychology to enable good students to qualify for demanding graduate programs.

The B.S. program in psychology is designed for career-oriented and highly motivated students. The program emphasizes broad preparation in science and the development of math and computer skills, and it requires more advanced courses and laboratory work in psychology than the B.A. program.

Recommended first-year course for either a B.A. or B.S. major: PSY-P 155 or P 106 Honors.

The B.S. degree in neuroscience is designed for students who have an interest in the interdisciplinary field of neuroscience and who are interested in pursuing graduate training in neuroscience, applying to medical school, or obtaining a research-related position in biotechnology, the life sciences, or the pharmaceutical industry. The major provides interdisciplinary training in basic scientific principles in the life and physical sciences that are necessary for an understanding of nervous system function, as well as training in the fundamental principles of neuroscience and

opportunities for more advanced training in specific topics in the field. Thus, students will gain a depth of understanding in neuroscience, from the cellular and molecular bases of nervous system function to a systems-level approach to the study of brain-behavior relationships.

Recommended first-year courses for a B.S. degree in neuroscience: PSY-P 101, P 106, or P 155.

Religious Studies (REL)

Religion is a major force in human experience. Religious studies provides an opportunity for students to explore the ways people have struggled to make sense of the world and their place in it. Religious studies does not aim to promote or undermine any particular religion or worldview; the academic study of religion seeks to examine religion analytically.

Religious studies explores a wide range of phenomena, including the myths, symbols, values, leadership, beliefs, writings, and rituals of individuals and communities in many different times and places. Religious studies brings together perspectives and approaches from anthropology, history, philosophy, art, sociology, and literature to gain a more comprehensive view of religious behavior. Majoring in religious studies provides students with the critical thinking and writing skills and general knowledge of the world necessary to perform a tremendous variety of professional tasks. Undergraduate majors in religious studies have long been valued by law schools, business schools, medical schools, public policy programs, and a wide variety of graduate and professional programs and employers.

INTERDEPARTMENTAL MAJOR IN RELIGIOUS STUDIES AND AFRICAN AMERICAN AND AFRICAN DIASPORA STUDIES

Students interested in combining religious studies and African American and African Diaspora studies can select an interdepartmental major including courses from both areas.

INTERDEPARTMENTAL MAJOR IN RELIGIOUS STUDIES AND PHILOSOPHY

Students interested in combining religious studies and philosophy select an interdepartmental major including courses in both areas.

Visit the department's website: www.indiana.edu/~relstud/.

Recommended first-year courses for a major: One or more 100- or 200-level introductory courses. (Note: Only one 100-level course may be counted in the major,

unless out of two one is REL-R 152 or R 153, then both can count.)

Slavic Languages and Literatures (Russian) (SLAV)

The department offers courses designed to meet a wide range of special needs and interests. Slavic language courses are designed not only for Slavic majors but also for students specializing in other disciplines, particularly the social sciences, natural sciences, and other languages and literatures. The department offers literature and culture courses that require no knowledge of Slavic languages, and most of them satisfy College requirements.

Freshmen who enter the university with some previous knowledge of a Slavic language are required to take a placement test to determine which course is most appropriate for them. Such students should contact the department at (812) 855-2608 before registration and several weeks before the start of the semester.

Students contemplating a possible Slavic major, a double major, or a minor should make an appointment to see the departmental undergraduate advisor.

All students are encouraged to consider the Summer Workshop in Slavic and East European Languages (SWSEEL), which will enable them to advance in Russian or another Slavic or East European language by two semesters during the eight-week second summer session.

Courses of interest to freshmen include the following:

For Russian: SLAV-R 223 Introduction to Russian Culture (fall), SLAV-R 224 Contemporary Russian Culture (spring), SLAV-R 263 Russian Literature from Pushkin to Dostoevsky (fall), SLAV-R 264 Russian Literature from Tolstoy to Solzhenitsyn (spring), SLAV-R 352 Russian and Soviet Film (fall)

For Croatian and Serbian: SLAV-S 363-S 364 Literature and Culture of the Southern Slavs I-II (note: will not be offered in 2010-2011), SLAV-R 353 Central European Cinema (spring)

For Czech: SLAV-C 363 History of Czech Literature and Culture (fall), SLAV-C 364 Modern Czech Literature and Culture (spring), SLAV-R 353 Central European Cinema (spring)

For Polish: SLAV-P 363-364 Survey of Polish Literature and Culture I-II (fall, spring), SLAV-R 353 Central European Cinema (spring)

Sociology (SOC)

Sociology is the study of the social structures and social forces that influence human behavior. Sociologists look beyond individual psychology and unique events to the broad patterns that shape individual and social life.

The department offers courses in such areas as social problems, social psychology, deviance, race and ethnic relations, population, family, and social change. A major in sociology provides an excellent foundation for many professional careers in law, business, journalism, government, community service, corrections, and social work, or for graduate work in sociology. Many sociology students have double majors.

A large number of sociology graduates find positions in the private sector in business, consulting, insurance, and banking. Careers in the fields of management, marketing, customer service, and public relations are especially common. Internships in private or public sector organizations are strongly encouraged.

Recommended first-year courses for a major: SOC-S 100 and one course from SOC-S 101, S 105, S 110, S 201, S 210, S 215, S 217, S 220, S 230.

Spanish and Portuguese (HISP)

The department offers a four-year program in course work leading to the major and minor in Spanish and Portuguese, with advanced specialization in culture, literature, and linguistics. Students may also study two semesters of language work in Catalan. The department actively participates in IU Overseas Study programs (academic year or semester study in Lima, Peru; Buenos Aires, Argentina; Madrid, Barcelona, Alicante, Seville, and Salamanca, Spain; Quito, Ecuador; Santiago and Valparaíso, Chile; Salvador, Bahía, and São Paulo, Brazil; Monteverde, Costa Rica; and Santiago, Dominican Republic; as well as summer programs in Cuernavaca and Guanajuato, Mexico; and Salamanca, Spain) and encourages all students to live and study in a Spanish- or Portuguese-speaking country. With careful planning from the beginning, foreign study is compatible with any course of study.

Students who plan to major in either language are strongly encouraged to consider a second major. A minor or second major is required.

HISP-S 250 Second-Year Spanish II and HISP-P 200 Second-Year Portuguese I are the first courses that count in majors.

Recommended first-year courses for a major:

Spanish: Level at which student places.

Portuguese: See your advisor regarding placement.

Speech and Hearing Sciences (SPHS)

Speech and hearing sciences encompass the study of our ability to use speech, language, and hearing and the disorders that affect this ability. Practitioners in the field—audiologists; speech-language pathologists; and speech, language, and hearing scientists—evaluate, treat, and conduct research in human communication, and its disorders in settings such as schools, hospitals, businesses, private practice, universities, research laboratories, and government agencies.

The B.A. degrees provide an overview of the processes of speech, language, and hearing. The B.S. degrees focus more on the processes underlying speech, language, and hearing while providing the option for more in-depth study in the sciences. Both degrees offer concentrations in either speech language pathology or audiology and afford the opportunity to go on to graduate studies within these fields. They also provide a strong science background that would be useful for entering directly into business, education, and the health professions.

Recommended first-year courses for a major: SPHS-S 110, S 111; PSY-P 101 or P 155; one of the two required mathematics courses from MATH-M 118, S 118, M 119, M 120, any 200-level or higher MATH “M” course; one College Topics course; one additional A&H distribution course; first year of foreign language.

Statistics (STAT)

Statistics is the science of data. Data are numbers with a context; the particular context that gives rise to the numbers is important. In addition to a knowledge of mathematics, statisticians must learn about the scientific disciplines that generate data of interest to understand and explain the observational studies or the statistical experiments in question. For example, statisticians calculate probabilities for DNA paternity tests; design clinical trials to study the effectiveness of new medications; study economic time series data, such as gross domestic product from developing countries in Africa; and develop statistical models of responses from fMRI psychological experiments.

The B.S. in Statistics provides excellent preparation for graduate and professional school as well as successful careers in academia, government, business, and actuarial science.

Students interested in the major should consider taking MATH-M 211 and MATH-M 212 in their first year. For students who are interested in understanding the way statistics is used in popular media and/or scholarly articles, STAT-S 100 is an excellent choice.

Telecommunications (TEL)

Telecommunications majors study a broad range of electronic media, including radio, television, cable, satellite services, telephone, multimedia, the Internet, and video games. There are three major course concentrations: (1) the electronic media’s influences on audiences and users; (2) the design and production of video, audio, and multimedia messages, programs, and products; and (3) the business, legal, and managerial aspects of telecommunications.

WFIU (FM) and WTIU (TV), university broadcast stations, instructional teleconferencing media, and state-of-the-art departmental production facilities are located in the Radio-TV Center and provide opportunities for student involvement.

Note: If you are interested in broadcast journalism, please read about the School of Journalism, p. 36. If interested in Sport Communication, see HPER, p. 31.

Recommended courses for the first year for students considering a major: TEL-T 101 and one of T 205, T 206, or T 207. TEL-T 101 is recommended to be taken before taking T 205, T 206, or T 207.

Those with design and production interests should take TEL-T 206 during the first year.

Theatre and Drama (THTR)

The Department of Theatre and Drama offers two degrees and one certification program: the Bachelor of Arts (B.A.) in theatre and drama, the Bachelor of Fine Arts (B.F.A.) in musical theatre, and certification for teaching theatre in secondary schools (in cooperation with the School of Education).

The B.A. in theatre and drama is a flexible program. It offers concentrations in all areas of theatre, training students who are both scholars and artists. The department believes that theatrical productions and classroom study are of equal and complementary value in an academic institution. Communication and critical thinking skills are foundation experiences for most theatre study and practice.

The B.F.A. in musical theatre is a preprofessional program. Combining general studies of the liberal arts program with theatre and musical theatre performance skills, the degree work is concentrated and demanding. Students enter this selective program only by audition and through direct admission to the College of Arts and Sciences. Audition may also be possible during the freshman year.

The certification program for teaching theatre in the secondary schools is also demanding. Combining requirements of the B.A. degree with professional

courses from the School of Education, this program recommends additional work in another teaching area, such as English.

Basic departmental requirements for all three programs are the same: THTR-T 100 Introduction to Theatre, THTR-T 101 Script Analysis for the Theatre, THTR-T 121 Acting I for Majors: Introduction to Acting, and THTR-T 125 Introduction to Theatrical Production. Much or all of this work can be done in the freshman year.

Students wishing to explore courses in the Department of Theatre and Drama may elect from THTR-T 100 Introduction to Theatre, THTR-T 101 Script Analysis for the Theatre, THTR-T 120 Acting I: Fundamentals of Acting, and THTR-T 125 Introduction to Theatrical Production.

West European Studies (WEUR)

West European Studies is an interdisciplinary program in the College of Arts and Sciences that combines courses in the social sciences, humanities, and languages to give students a broad understanding of the countries of Western Europe and the European Union (EU). The program is structured by combining core courses and seminars with elective courses from other departments and schools that address topics concerning Western Europe and the EU. West European studies offers two minors. Students take one core course in political science and four additional courses selected from the social sciences and humanities, along with a language, to complete a minor in West European studies. For a European Union studies minor, students take one course from each of three areas of concentration: Politics/Public Policy, Economics/Business, and Culture/Identity. These core courses are complemented with 9 credits chosen from additional core or area studies courses and study of a European language. West European studies and EU studies minors are easily paired with majors in English, foreign languages, fine arts, history, political science, international studies, education, journalism, business, music, and other fields.

Kelley School of Business (BUS)

WWW.KELLEY.IU.EDU/UGRAD

The Kelley School of Business has been an innovator in business education for more than 85 years. The Undergraduate Program remains consistently ranked among top undergraduate business programs and

across all major disciplines. It offers an outstanding curriculum of skill-based courses, featuring the Integrative Core (I-Core), where students experience the multidimensional aspects of business in a supportive, hands-on, team-based environment.

Kelley School students may study abroad, complete an internship, network with distinguished alumni, and learn from some of the best and brightest business faculty and business leaders. Check out the school's website for more information about the Kelley School B.S. in Business.

BUSINESS MAJORS

For a detailed description of the 14 business majors, go to www.kelley.iu.edu/ugrad/academics/majors.cfm.

Accounting

The accounting major prepares students for careers in auditing, corporate accounting, management consulting, governmental and not-for-profit organizations, and taxation. It provides an excellent background for students who want to pursue graduate work in business, public administration, or law.

Economic Consulting

The economic consulting major is intended to serve both the in-house economist and the economist in the more competitive consulting and financial services markets.

Entrepreneurship and Corporate Innovation

Entrepreneurship targets students with interests in new entrepreneurial ventures; it also teaches the roles of entrepreneurial management inside a larger organization. It involves the study of the special skills and knowledge needed by entrepreneurs and managers of small to medium-sized firms.

Finance

Finance, a critical business function, offers career opportunities in many areas including corporate finance, investments, banking, and international finance. Financial analyst, investment banker, portfolio manager, credit analyst, and international finance advisor are among several career paths in finance.

Finance—Real Estate

This major prepares students to be real estate brokers who represent buyers, sellers, and owners in real estate

transactions; corporate real estate professionals who manage properties used by corporations in terms of purchasing, selling, and leasing; and property managers who net revenues by managing rental flows, tenant retention, and operations.

Information and Process Management

The information and process management major is designed to address information technology (IT) and process issues for operating and managing complex and distributed global businesses through specialized IT and business process models. This major blends information systems, decision sciences, and process management concepts to develop future IT resource professionals.

International Business Co-Major

SECOND MAJOR ONLY.

The multidisciplinary international business co-major, with its focus on mastering international business fundamentals, proficiency in foreign language, and cross-cultural skills acquired during a required overseas study experience, prepares students for the global workplace.

Legal Studies

The legal studies major gives students an opportunity to study, in depth, current legal issues and trends affecting business and society. Students gain an understanding of the critical role that legal considerations play in sound business decision making.

Management

The management major is intended for students interested in managing organizations such as businesses, governments, hospitals, and universities. The courses teach students the broad aspects of management and organizations and help them develop skills for handling issues such as motivation and human resource allocations in today's society.

Marketing

The marketing major pertains to all activities related to the marketing and distribution of goods and services, from producers to consumers. Areas of study include buyer behavior, the development of new products, pricing policies, institutions and channels of distribution (including retailing and wholesaling), advertising, professional selling, marketing research, and the management of marketing.

Production/Operations Management

The production/operations management major provides a systematic way of looking at organizational processes using readily available and practical analytical tools and is intended for students who are interested in managing the operations of complex, computer-integrated firms, such as manufacturing companies, multibranch banks, retail chains, international assembly plants, and distribution centers.

Public Policy Analysis

The public policy major is aimed at students who want a liberal arts major to prepare for graduate/professional school or for a public sector position.

Supply Chain Management

Supply Chain Management covers the functional business processes, starting with the procurement of raw materials and proceeding through the final distribution of product to customers. Understanding and optimizing business processes is a cornerstone of success in the fast-changing global economy. The current proliferation in supply chain management in business is mirrored by scholars who seek to understand and educate the next generation of practitioners, business leaders, and policy makers.

Technology Management Co-Major

SECOND MAJOR ONLY.

The technology management co-major is designed for students who wish to complement a functional area major such as finance, accounting, or supply chain management with a strong information technology background. This co-major is particularly attractive for students interested in careers as consultants and business analysts.

ADMISSION REQUIREMENTS

Admission to the Kelley School is selective and requires students to do the following:

- complete English composition
- complete at least three out of the following four courses: MATH-M 118 Finite Mathematics, MATH-M 119 Brief Survey of Calculus (or M 211 Calculus I), BUS-K 201 The Computer in Business (all with a grade of C or higher), and optional courses BUS-X 100 Business Administration: Introduction or BUS-G 100 Business in the Information Age
- complete 26 credit hours of college course work that counts toward graduation

- submit an application. Application deadlines are April 1 for fall semester and November 1 for spring semester. (Grades for prerequisite course work must appear on the student's university transcript by May 15 to be used for fall admission.)

The Kelley School Admissions Committee reviews each application, looking for evidence of strong and consistent academic performance at the B level or higher. Factors such as extracurricular activities, community service, work experience, and optional letters of recommendation are also considered but are less important than academic performance factors.

FRESHMAN YEAR COURSE WORK

During the freshman year, students pursuing a major in the Kelley School of Business usually complete the following:

■ ENGLISH COMPOSITION COURSE(S)

ENG-W 131 Elementary Composition (or alternative; see ud.iub.edu/fs_composition.php)

■ TWO MATHEMATICS COURSES

MATH-M 118 Finite Mathematics and M 119 Brief Survey of Calculus (M 211 Calculus I may be substituted for M 119 Brief Survey of Calculus).

Your advisor will help you finalize your choice based on your background, high school test scores and grades, and IUB Mathematical Skills Assessment score.

Note: Some students may need to take MATH-M 014 Basic Algebra, M 025 Precalculus Mathematics, and/or M 026 Trigonometric Functions as preparation for a higher-level course. No credit toward graduation is awarded for any of these courses.

■ BUSINESS COURSES

BUS-K 201 The Computer in Business (no alternate)

BUS-A 100 Basic Accounting Skills

BUS-X 100 Business Administration: Introduction or BUS-G 100 Business in the Information Age are good options for students who are exploring their interest in business (although they are not required, either course may be used as one of the course options for admission to the school).

Note: Some students take additional courses that are required for all business majors, such as ECON-E 201 Introduction to Microeconomics, BUS-A 201 Introduction to Financial Accounting (students must take A 100 Basic Accounting Skills first), BUS-A 202 Introduction to Managerial Accounting (students must

take A 100 Basic Accounting Skills first), or BUS-X 201 Technology (students must take BUS-K 201 The Computer in Business first). If you are interested in doing this, consult with an advisor about whether this is a good idea for you.

■ SPEECH COMMUNICATION COURSE

BUS-X 104 Business Presentations or CMCL-C 121 Public Speaking (or alternate)

■ GENERAL EDUCATION COURSES

The General Education core requirement includes a minimum of 27 credit hours with two options for fulfilling the requirement:

1. Distribution option, which includes courses across these three areas:

- Arts and Humanities
- Social and Historical Studies (excluding ECON courses)
- Natural and Mathematical Sciences (excluding MATH courses)

or

2. Field Specialization option, which includes courses that focus on one of the five following areas:

- Communication
- Environment
- Global Studies and Languages
- Arts and Social Service
- Science and Technology

■ INTERNATIONAL DIMENSION REQUIREMENT

Students must also complete the International Dimension requirement, which can be fulfilled by any one of four options:

- Foreign language: 6 credits at the 200 level or above
- IU or other approved Overseas Study Program: minimum 6 credits
- International business and economics courses: 6 credits
- Area studies courses: 6 credits

■ ELECTIVE COURSE(S)

The business major that a student chooses to pursue will determine the number of elective credit hours allowed. See your advisor.

COURSES NORMALLY COMPLETED DURING THE FIRST TWO YEARS: I-CORE PREREQUISITES

Regardless of major, business students usually complete the courses listed below during the first two years. Each course must be completed with a grade of C or higher.

- BUS-A 100 Basic Accounting Skills
- BUS-A 201 Introduction to Financial Accounting
- BUS-A 202 Introduction to Managerial Accounting
- BUS-G 202 Corporate Social Strategy
- BUS-K 201 The Computer in Business
- BUS-L 201 The Legal Environment of Business
- BUS-X 104 Business Presentations (or equivalent)
- BUS-X 201 Technology
- BUS-X 204 Business Communications
- BUS-X 220 Career Perspectives
- ECON-E 201 Introduction to Microeconomics
- ECON-E 370 Statistical Analysis for Business and Economics
- ENG-W 131 Elementary Composition (or equivalent)
- MATH-M 118 Finite Mathematics
- MATH-M 119 Brief Survey of Calculus (or M 211 Calculus I)

Please see your advisor regarding necessary prerequisites for some courses.

School of Continuing Studies (SCS)

WWW.CONTINUE.INDIANA.EDU

The School of Continuing Studies was created in 1975, reflecting the commitment of Indiana University to meeting the educational needs of adults. It offers the Associate of Arts and Bachelor of General Studies degrees. Degree requirements can be completed in a variety of ways, enabling students to design a flexible program of study tailored to their interests and goals. Credits toward the degrees can be earned in courses completed at an IU campus, distance courses, independent study by correspondence, credit by examination, military service credit, and credit for Self-Acquired Competency (SAC).

THE ASSOCIATE OF ARTS AND BACHELOR OF GENERAL STUDIES DEGREES

The Associate of Arts in General Studies (A.A.G.S.) and Bachelor of General Studies (B.G.S.) degrees are

composed of two parts: 1) course work that must be done in broad categories called “required areas of learning,” and 2) course work called “elective credit” that may be done in any school, division, or program of the university. To fulfill the requirements, students may choose from a wide variety of subject fields. In each plan of study, a student must demonstrate competency in each of the following areas: written communication, intermediate writing, oral communication, quantitative reasoning, computer literacy, and cultural diversity. There is a maximum number of credit hours allowed from a single department/school. Students should discuss with their academic advisors the appropriate ways to establish competency, e.g., specific courses, credit by examination, and self-acquired competencies.

ADMISSION REQUIREMENTS

Although there are no specific courses required for admission, students must complete a School of Continuing Studies admission application. Additional information and application forms are available from Bloomington General Studies, Maxwell Hall 020, Bloomington, IN 47405-7101, (812) 855-4991 and online at www.continue.indiana.edu.

Prospective applicants are encouraged to meet with an academic advisor in General Studies. Please call (812) 855-4991 for an appointment.

FRESHMAN YEAR COURSE WORK

During the freshman year, students usually complete the following courses:

- **ENGLISH COMPOSITION COURSE(S)**
ENG-W 131 Elementary Composition or alternative (see ud.iub.edu/fs_composition.php).
- **QUANTITATIVE REASONING COURSE(S)**
Students must demonstrate competency in quantitative reasoning through course work or exemption.

Choose from MATH-M 025, M 026, M 027, A 118, M 118 (D 116-D 117 if eligible), M 119, J113 and higher, ANTH-B 200, COGS-Q 250, CSCI-A 201, C 211, or PHIL-P 150.

Students having earned a math SAT score of 650 or higher or a math ACT score of 29 or higher are exempt from the quantitative reasoning requirement.

Your advisor will help you finalize your choice based on your background, high school test scores and grades, career goals, and IUB Mathematical Skills Assessment Test score.

Note: Some students may need to take MATH-M 014 as preparation for a higher-level course. M 014, M 025, M 026, and M 027 do not count for graduation credit.

■ COMPUTER LITERACY COURSE

Choose from any computer science course or any other approved computer course. The most common choices are CSCI-A 110, BUS-K 201, EDUC-W 200, GEOG-G 237, HPER-P 200, FINA-D 210, and SPEA-V 261, INFO-I 101. See your advisor for other options.

■ ORAL COMMUNICATION COURSE

Students must demonstrate competency or take CMCL-C 121, C 122, THTR-T 115, or T 120. See your advisor for other options.

■ CULTURAL DIVERSITY

See list online at:

www.indiana.edu/~bulletin/iub/college/2008-2010/appendix1.shtml

■ GENERAL EDUCATION COURSES

Choose from:

- Arts and humanities: any foreign language course or courses designated A&H by the College of Arts and Sciences. See the Course Descriptions booklet for A&H courses.
- Social and behavioral sciences: courses designated S&H by the College of Arts and Sciences. See the Course Descriptions booklet for S&H courses.
- Science and mathematics: courses designated N&M by the College of Arts and Sciences. See the Course Descriptions booklet for N&M courses.

■ ELECTIVE COURSE(S)

Choose elective courses that interest you.

School of Education (EDUC)

WWW.EDUCATION.INDIANA.EDU

Indiana University has been educating teachers since 1851. The School of Education is one of America's most respected institutions for the preparation of teachers, administrators, and specialists in education. On the Bloomington campus, the school is housed in the Wendell W. Wright Education Building, a facility designed to meet the demands of the information age and to support teaching and research with the latest instructional technology.

The School of Education offers a variety of programs that culminate in several bachelor of science degrees and certification areas:

- Early Childhood Education (pre-Kindergarten and K–3)
- Elementary Education (grades K–6)
- Teaching All Learners: Elementary Education and Special Education (grades K–6)
- Secondary Education (Senior High, Junior High, Middle School, grades 6–12; Anchor and Community of Teachers [COT]—see subject list on p. 27)
- Special Education/Secondary through COT (grades 6–12)
- All-Grade Education (grades K–12) in Visual Arts and World Languages

Note: Undergraduate teacher certification is also available for selected areas through joint programs between the School of Education and other IU degree-granting units:

- Health and safety education (grades 6-12) (HPER)
- Music education (grades K-12) (Jacobs School of Music)
- Physical education (grades K-12) (HPER)
- Theatre education (grades 6-12) (COLL)
- World Languages: Chinese and Japanese (grades K-12) (COLL)

ADMISSION REQUIREMENTS

All programs require passing scores on the PRAXIS I admission exams in reading, writing, and mathematics, as well as a 2.5 cumulative GPA including all prerequisite course work.

FRESHMAN YEAR COURSE WORK

Early Childhood Education

During the freshman year students interested in Early Childhood Education usually complete the following:

- **ENGLISH COMPOSITION COURSE**
ENG-W 131 or W 170 (see ud.iub.edu/fs/composition.php). C or higher required.
- **ORAL EXPRESSION COURSE**
CMCL-C 121, CMCL-C 122, CMCL-C 223, or EDUC-G 203. C or higher required.
- **SCIENCE AND TECHNOLOGY COURSES**
EDUC-Q 200 and EDUC-W 200
- **MATHEMATICS COURSES**
EDUC-N 101 or MATH-T 101, EDUC-N 102 or MATH-T 102 or MATH-A 118, EDUC-N 103 or MATH-T 103. (N/T 101 is a prerequisite for N/T

102 and N/T 103.) See advisor for additional options.

■ ADDITIONAL GENERAL EDUCATION COURSES

Choose from the following requirements:

- Fine Arts: MUS-E 241. See advisor for test-out information.
- U.S. History: HIST-H 105 or H 106
- Social Studies Elective (select one Social & Historical course from the following departments): Economics, Geography, History, Political Science, Psychological and Brain Sciences, or Sociology

■ ELECTIVE COURSE(S)

The number of electives is very limited. Electives are not recommended for the freshman year. See your advisor for additional details.

Elementary (K-6) or Special Education/Elementary: Teaching All Learners (K-6)

During the freshman year students interested in elementary education or special education at the elementary level usually complete the following:

■ ENGLISH COMPOSITION COURSE

ENG-W 131 or W 170. C or higher required.

■ ORAL EXPRESSION COURSE

CMCL-C 121, CMCL-C 122, or EDUC-G 203. C or higher required.

■ MATHEMATICS COURSES

EDUC-N 101 or MATH-T 101, EDUC-N 102 or MATH-T 102 or MATH-A 118, EDUC-N 103 or MATH-T 103. (N/T 101 is a prerequisite for N/T 102 and N/T 103.) See advisor for additional options.

■ SCIENCE AND TECHNOLOGY COURSES

EDUC-Q 200 and EDUC-W 200

■ INTRODUCTION TO TEACHING AND CHILD DEVELOPMENT COURSES

(for ELEMENTARY EDUCATION ONLY)

■ EDUC-F 200 AND EDUC-P 248

(P 248: Take no earlier than spring semester of freshman year.)

■ INTRODUCTION TO EXCEPTIONAL CHILDREN COURSE (FOR TEACHING ALL LEARNERS ONLY)

EDUC-K 205 (K 205: Take no earlier than spring

semester of freshman year.)

■ ADDITIONAL GENERAL EDUCATION COURSES

Choose from the following:

- Fine Arts: MUS-E 241. See advisor for test-out information.
- U.S. History (one course): HIST-H 105 or HIST-H 106
- World Civilization (one course): HIST-H 101, H 102, H 103, H 104; GEOG-G 110, G120
- Social Studies Elective (select one Social & Historical course from the following departments): Economics, Geography, History, Political Science, Psychological and Brain Sciences, or Sociology
- Additional Science Courses: GEOL-G 103, G 104, G 105; BIOL-Q 201 and PHYS-P 199 (Q 201 and P 199 can only be taken after completing EDUC-Q 200)

AREA OF CONCENTRATION

Elementary education students choose an area of concentration. Your advisor will explain this requirement to you and help you choose courses if you are interested in beginning your concentration during the freshman year.

■ ELECTIVE COURSE(S)

The number of electives is very limited. Electives are not recommended for the freshman year. See your advisor for additional details.

Secondary (Middle School, Junior High, or High School) and All-Grade Education

During the freshman year students interested in secondary or all-grade education (including Special Education through COT) usually complete the following:

■ ENGLISH COMPOSITION COURSE(S)

ENG-W 131 Elementary Composition (or alternative; see ud.iub.edu/fs_composition.php). ENG-W 131 or W 170 is preferred.

■ ORAL EXPRESSION COURSE

CMCL-C 121 or CMCL-C 122 or EDUC-G 203

■ COMPUTER COURSE

EDUC-W 200 (3 credits) (Note: The Community of Teachers Program does not require a computer class.)

■ ADDITIONAL GENERAL EDUCATION COURSES

Choose a few courses from the following:

- Remaining Arts and Humanities: Any course identified as Arts and Humanities (A&H) by the College of Arts and Sciences (6 credit hours required for degree).
- Natural and Mathematical Sciences: Any course identified as Natural and Mathematical Sciences by the College of Arts and Sciences (9 credit hours required for degree).
- Social and Historical Studies: Any course identified as Social and Historical Studies by the College of Arts and Sciences (9 credit hours required for degree).
- Multicultural Studies: Any course listed as “Culture Studies” by the College of Arts and Sciences (3 credit hours required for degree). Careful selection may allow course work to be double-counted in some majors.

■ MAJOR COURSE(S)

Two to four courses from the major area. See your advisor.

■ ELECTIVE COURSE(S)

The number of elective credits varies with each major. See your advisor.

MAJORS AVAILABLE FOR SECONDARY EDUCATION

Secondary (Anchor and Community of Teachers Program)

- English/Language Arts
- Journalism
- Mathematics
- Science (select one subject area)
 - » Chemistry
 - » Earth-Space Science
 - » Life Sciences/Biology
 - » Physics
- Social Studies (select three subjects)
 - » Economics
 - » Geographical perspectives
 - » Government and citizenship
 - » Historical perspectives
 - » Psychology
 - » Sociology
- Special Education (COT only)
- Theatre (COLL)—certification only

MAJORS AVAILABLE FOR ALL GRADES (ALL SCHOOL SETTINGS)

- World Languages
 - » Chinese (COLL)—certification only
 - » French
 - » German
 - » Japanese (COLL)—certification only
 - » Latin
 - » Russian
 - » Spanish
- Visual Arts

School of Health, Physical Education, and Recreation (HPER)

WWW.HPER.INDIANA.EDU

The school’s first graduates in physical and health education received degrees in 1926. The current organizational structure was established in 1946. Throughout its history, the school has enjoyed a significant national reputation. The school now comprises the Department of Applied Health Science; the Department of Kinesiology; the Department of Recreation, Park, and Tourism Studies; and the Division of Recreational Sports. A close relationship is also maintained with the Department of Athletics, to assure excellent preparation of athletic coaches and trainers.

APPLIED HEALTH SCIENCE MAJORS

- Community Health
- Dietetics
- Health Education—Secondary Teacher Preparation
- Human Development and Family Studies
- Nutrition Science
- Safety

APPLIED HEALTH SCIENCE ADMISSION REQUIREMENTS

All majors require students to complete 26 credit hours before admission. The minimum overall entrance GPAs for the majors are as follows: GPA of 2.8 for Dietetics; GPA of 2.5 for Community Health, Human Development and Family Studies, Nutrition Science, and Health Education—Secondary Teacher Preparation; and GPA of 2.3 for Safety Science.

FRESHMAN YEAR COURSE WORK

Applied Health Science

During the freshman year students usually complete the following:

- **ENGLISH COMPOSITION COURSE**
ENG-W 131 Elementary Composition or alternative (see ud.iub.edu/fs_composition.php).
- **MATHEMATICAL MODELING COURSE**
MATH-M 118
- **ARTS & HUMANITIES**
Example: CLAS-C 205. See your advisor or the School of HPER Bulletin for choices.
- **NATURAL & MATHEMATICAL SCIENCES**
Example: CHEM-C117. See your advisor or the School of HPER Bulletin for choices.
- **SOCIAL & HISTORICAL STUDIES**
Example: HIST-H 103. See your advisor or the School of HPER Bulletin for choices.
- **WORLD LANGUAGES & CULTURES**
Example: FINA-A 102. See your advisor or the School of HPER Bulletin for choices.
- **MAJOR COURSE(S)**
See your advisor for choices.
- **ELECTIVE COURSE(S)**
Electives vary by program. See your advisor.

Community Health Major

This four-year program leads to the degree Bachelor of Science in Public Health (BSPH) with emphasis in promoting the health of the general public. With this background, students can lean to direct and implement programs in community, occupational, and clinical settings. The curriculum can serve as a route to medical or dental school. There is a 2.5 cumulative GPA entrance requirement.

Recommended courses for the first year for students considering a major: HPER-H 263, BIOL-L100, L104, or L112, CHEM-C 103 or C117, one math course from MATH-M 118 or MATH-A 118 (or D116-D117 if eligible) or M119, PSY-P 101, P102.

Dietetics Major

This four-year program leads to the degree Bachelor of Science in Applied Health Science with an emphasis on the role of nutrition in health promotion and disease prevention and treatment in clinical and community settings. Students learn to apply principles of nutrition, food science, and food management in advancing health promotion. There is a 2.8 cumulative GPA entrance requirement. The curriculum meets American Dietetic Association (ADA) Didactic Program in Dietetics standards.

Recommended courses for the first year for students considering a major: CHEM-C 117 or C 103 (fall term advised), CMCL-C 121, PSY-P 101, and MATH-M 118 or MATH-A 118 (or D 116-D 117 for eligible students) or MATH M 119, HPER-N 231 (spring term advised if chemistry prerequisite met).

Health Education—Secondary Teacher Preparation Major

This four-year program leads to an initial teaching license and the Bachelor of Science in Applied Health Science degree with an emphasis in secondary health education. There is a 2.5 cumulative GPA entrance requirement.

Recommended courses for the first year for students considering a major: HPER-H 160, HPER-H 205 (1 cr.), HPER-H 263, HPER-F 255, HPER-H 174, EDUC-W 200 (1 cr.), EDUC-G 203.

Human Development and Family Studies Major

This four-year program leads to the Bachelor of Science in Applied Health Science degree with an emphasis in the study of the growth and development of human beings throughout the life span, including how family members interact and the roles they assume. There is a 2.5 cumulative GPA entrance requirement.

Recommended courses for the first year for students considering a major: HPER-F 150; HPER-F 255; HPER-F 258; BIOL-L 104; MATH-M 118 (or D 116-D 117 if eligible); A 118 or M 119; PSY-P 101; PSY-P 102; SOC-S 100; one computer course from HPER-P 200, HPER-R 237, CSCI-A 110, BUS-K 201, or EDUC-W 200; an arts and humanities or social and historical studies course.

Nutrition Science Major

This four-year program leads to the Bachelor of Science in Applied Health Science degree with an integration of the basic and applied principles of nutrition and related sciences. The curriculum can serve as a route toward medical or dental school. There is a 2.5 cumulative GPA entrance requirement.

Recommended courses for the first year for students considering a major: CHEM-C 117 or C 103 (fall term advised), CMCL-C 121 or C 122, MATH-M 119 or M 211, HPER-N 231 (spring term advised if chemistry prerequisite met).

Safety Major

This four-year program leads to the Bachelor of Science in Applied Health Science degree with an emphasis in safety. Focus includes courses in safety, industrial hygiene, and program management. There is a 2.3 cumulative GPA entrance requirement.

Recommended courses for the first year for students considering a major: HPER-S 101, HPER-S 151; CHEM-C 101/C 121 (fall term advised); one math course from MATH-M 118 (or D 116-D 117 if eligible), A 118, or M 119; PSY-P 101 and PSY-P 102.

Safety Management Programs

CERTIFICATE IN SAFETY MANAGEMENT

A one-year program of study for the practitioner who is interested in gaining general safety and health knowledge combined with specific expertise in homeland security and emergency management. See an advisor for specifics. No Pass/Fail courses are allowed. A minimum of 2.0 cumulative GPA is required in courses used for this certificate.

ASSOCIATE OF SCIENCE DEGREE IN SAFETY MANAGEMENT

This two-year program to prepare entry-level specialists builds on the one-year certificate program and provides a professional background for students interested in pursuing a baccalaureate degree in safety.

Recommended courses for the first year: HPER-S 101, HPER-S 151, CHEM-C 101/C 121 or C 103 or C 117, PSY-P 101.

KINESIOLOGY MAJORS

- Athletic Training
- Dance
- Exercise Science
- Fitness Specialist
- Physical Education Teacher Education (PETE)
- Sport Communication—Broadcast and Print
- Sport Marketing and Management
- *See your advisor for information about the following kinesiology minors and the Martial Arts Certificate Program: Aquatics, Dance, Coaching, Exercise Science, Fitness, Kinesiology, and Sport Marketing and Management.*

KINESIOLOGY ADMISSION REQUIREMENTS

See the following information for the entrance GPA and course requirements for entrance to majors.

FRESHMAN YEAR COURSE WORK

Kinesiology

- **ENGLISH COMPOSITION COURSE**
Elementary Composition or alternative (see ud.iub.edu/fs_composition.php).
- **MATHEMATICAL MODELING COURSE**
MATH-M 118
- **ARTS & HUMANITIES**
Example: CLAS-C 205. See your advisor or the School of HPER Bulletin for choices.
- **NATURAL & MATHEMATICAL SCIENCES**
Example: CHEM-C117. See your advisor or the School of HPER Bulletin for choices.
- **SOCIAL & HISTORICAL STUDIES**
Example: HIST-H 103. See your advisor or the School of HPER Bulletin for choices.
- **WORLD LANGUAGES & CULTURES**
Example: FINA-A 102. See your advisor or the School of HPER Bulletin for choices.
- **MAJOR COURSE(S)**
See your advisor for choices.
- **ELECTIVE COURSE(S)**
Electives vary by program. See your advisor.

Athletic Training Major

The four-year program leads to the Bachelor of Science Athletic Training. The athletic training curriculum prepares the student to sit for the National Athletic Trainers' Association Board of Certification (NATABOC) examination. Additionally, the program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

The number of admissions to the professional athletic training program is necessarily limited to the number of practicum spaces available. A student desiring entrance into the program is eligible for consideration under the following conditions:

- (1) Formal application by April 1, including a) three letters of recommendation; b) biographical sketch; c) completion of Athletic Training Application; d) current transcripts (transfer students only); e) completion of Technical Standards for Admission to the Athletic Training Program form; f) completion of Athletic Training Observation Experience–Hour Verification and Basic Athletic Training Proficiency Skills Forms A and B; g) completion of limited criminal history background check from state police (in state of

permanent residence). After admission, a small fee may be associated with this as determined by state police policies. Forms for required application items a, c, e, and f are in “Application” at www.indiana.edu/~kines/undergraduate/training.shtml.

- (2) Interview with the Athletic Training Admissions Committee.
- (3) Completion of HPER-H 160 and P 280 with a B or higher.
- (4) Completion of ANAT-A 215 with a C or higher.
- (5) Minimum university CGPA of 2.50 or higher.

Admission to the undergraduate Athletic Training Program is determined by the following criteria: overall GPA and grade in the three required courses (35 percent), letters of recommendation (20 percent), and interview (45 percent). A selection committee that includes at least one NATABOC-certified member determines admission to the program. Students satisfying the conditions stated above are not guaranteed positions in the program.

Note: All major core and professional education courses must be completed with a minimum full C grade.

The recommended courses for the first year for students considering a major: HPER-H 160, a mathematical modeling course, HPER-P 280, CHEM-C 101 and 121, ANAT-A 215, ENG-W 131, course(s) in art and humanities, course(s) in world cultures. (*note: if chosen carefully, A&H and WC can be the same course(s); free elective course(s).*)

Dance Major

The four-year dance curriculum combines a rigorous general-education component with technical training and professional experience. **An application and audition are required for admission to the major in dance at Indiana University.** The application packet may be obtained from the Department of Kinesiology, HPER 115, 1025 E. Seventh Street, Bloomington, IN 47405, Phone: (812) 855-6172, or apply online: www.indiana.edu/~kines/undergraduate/dance.shtml.

Note: All students must officially apply and be accepted to Indiana University Bloomington before being admitted to the Department of Kinesiology dance major. Students may audition for the major before official admission to IU. Students who pass the audition process and are admitted to Indiana University Bloomington must complete 26 credit hours with a minimum grade point average of 2.0 in order to be officially accepted into the dance major.

Recommended courses for the first semester for students considering the major: ENG-W 131, a mathematical modeling course, HPER-D 100, HPER-D 102, HPER-D 111, HPER-D 121, HPER-D 261.

Exercise Science Major

This four-year program leads to the Bachelor of Science in Kinesiology. Students may enter the major after completing 26 credit hours with a 2.5 or higher cumulative grade point average.

The exercise science major is for students interested in pursuing a graduate degree in some area related to human movement or exercise science. It offers students excellent preparation for graduate work in adapted physical education, biomechanics, ergonomics, exercise physiology, motor control, and sports medicine. In addition, the exercise science curriculum allows for preparation for professional education in chiropractic, dentistry, medicine, physical and occupational therapy, optometry, osteopathy, podiatry, physician’s assistant programs, and other health fields.

Recommended courses for the first year for students considering a major: HPER-E 119, P 212, P 280 or H 160; CHEM-C 101/C 121 or C 117; MATH-M 118 and M 119; ANAT-A 215 or HPER-P 205, PSY-P 101; one computer course from CSCI-A 110, HPER-P 200, BUS-K 201, CMCL-C 121.

Fitness Specialist Major

The fitness specialist major prepares students for entry-level employment with corporate and community fitness programs, health clubs, YMCAs, and similar fitness-related organizations. This major helps students prepare to complete various fitness certifications, including the American College of Sports Medicine (ACSM) Health Fitness Instructor (HFI) Certification Exam.

This four-year program leads to the Bachelor of Science in Kinesiology. Students may enter the major after completing 26 credit hours with a 2.5 or higher cumulative grade point average.

Recommended courses for the first year for students considering a major: HPER-P 205, HPER-P 216, HPER-P 280, CHEM-C 101, CHEM-C 121, ENG-W 131, PSY-P 101; mathematical modeling course; computer course, such as HPER-P 200 or CSCI-A 110; arts and humanities course; world languages and cultures (WC) course. (*note: if chosen carefully, A&H and WC can be the same course(s); free elective course(s).*)

Physical Education Teacher Education (PETE) Major

This four-year program leads to a provisional teaching certificate and the Bachelor of Science in Kinesiology. Certification is for grades K–12. Students seeking an undergraduate degree in Physical Education Teacher Education (All-Grade Teaching License) must be admitted to both the Department of Kinesiology Physical Education Teacher Education program and to the School of Education Teacher Education Program. Usually, students apply for admission to the PETE program during the spring of the freshman year and to the School of Education Teacher Education Program before the end of the sophomore year.

Students seeking admission to the Physical Education Teacher Education (PETE) Program in the Department of Kinesiology are eligible for consideration under the following conditions:

- (1) Completion of 26 credit hours of college course work that counts toward graduation.
- (2) Cumulative GPA of 2.5 or higher at the time of application.
- (3) Completion of the following prerequisite courses with a minimum grade of C (2.0) in each course:
 - (a) HPER-P 140 Foundations of Physical Education
 - (b) HPER-P 141 Fundamentals of Human Movement
- (4) Formal application to the program, including:
 - (a) Submission of a completed application form to the dean's office by March 1 for fall admission.
 - (b) Three letters of recommendation
 - (c) Personal interview

Note: All major core and professional education courses must be completed with a minimum full C grade.

Recommended courses for students considering a major: HPER-P 140, HPER-P 141, HPER-P 205, HPER-P 216, HPER-P 219, HPER-P 224, HPER-P 280, CMCL-C 121, ENG-W 131, arts and humanities course; world languages and cultures course (*note, if chosen carefully, A&H and WC can be the same course*).

Sport Communication Major

Students may complete a four-year program with either a broadcast or a print emphasis in conjunction with the Department of Telecommunications or the School of Journalism, respectively.

A minimum of 26 credit hours and a cumulative entrance grade point average of 2.5 are required for admission to the Sport Communication—Broadcast and Print emphases. For the print emphasis, application to the School of Journalism should be completed during the freshman year in order to be eligible to register for advanced journalism courses.

Recommended courses for students considering a major: HPER-P 212, HPER-P 213, CMCL-C 121, ENG-W 131, JOUR-J 110 (print major), TEL-T 101 (broadcast major), mathematical modeling course; arts and humanities course; world languages and cultures course (*note: if chosen carefully, A&H and WC can be the same course*); social and historical studies course (*note: if chosen carefully, S&H and WC can be the same course*); computer course, such as HPER-P 200 or CSCI-A 110. See your advisor for other options. Students seeking the print emphasis need to complete one semester of foreign language (or establish proficiency) and complete all journalism admission prerequisite courses.

Sport Marketing and Management Major

This four-year interdisciplinary program focuses on interest in marketing and management as applied to the sport enterprise and leads to the degree Bachelor of Science in Kinesiology. Admission is competitive, and the number of admissions to the sport marketing and management program is limited. Between 40 and 60 students per year will be accepted.

Students seeking admission are eligible for consideration under the following conditions:

- (1) Completion of 40 credit hours of college course work that counts toward graduation. This course work may be completed at Indiana University or at another accredited institution offering comparable course work. Generally, students apply mid-sophomore year.
- (2) Successful completion of the following five prerequisite courses:
 - » BUS-A 201 or A 202 (*P: A 100*)
 - » BUS-L 201 (*P: sophomore standing*)
 - » ECON-E 201 or E 202
 - » HPER-P 211
 - » MATH-M 118 (*or both D 116 and D117*) or M 119

For purposes of admission, the average of the grades earned in the prerequisite courses will be used to compute the GPA. For repeated courses, the highest grade will be used in the computation of the prerequisite average GPA.

- (3) Submission of an application by the required deadline. Undergraduates are admitted to the Sport Marketing and Management Program twice each year. The application deadline for admission is December 1 for spring semester and May 1 for fall semester. Students will be notified of admission status no later than February 15 and June 1. Grades for all prerequisite course work must be on the student's university transcript by the end of fall or spring semester. Applications are available at the School of Health, Physical Education, and Recreation, Records Office, Room 115.
- (4) Participation in the Sport Marketing and Management Orientation Program. After receiving an offer of admission, students are required to attend an orientation program at a time specified in the offer. Failure to attend this orientation program may cause the offer of admission to be withdrawn.

Applications are reviewed on an individual basis. Admission will be based upon the applicant's GPA (both prerequisite course and cumulative GPA). To be a competitive applicant, students should strive for at least a 3.0 GPA. Other factors will be considered, such as trend in grades, experience in sport activities, sport-related work or volunteer experience, and other relevant skills and experiences.

Recommended courses for students considering the major: HPER-P 211, HPER-P 212, BUS-A 201 or A 202, BUS-X 100, CMCL-C 121, ENG-W 121, PSY-P 101; mathematical modeling course; arts and humanities course; world languages and cultures course (*note: if chosen carefully, A&H and WC can be the same course*); social and historical studies course; (*note: if chosen carefully, S&H and WC can be the same course*); ECON-E 201 is taken by some students in the freshman year. See your advisor for other suggested course work.

RECREATION MAJORS

Outdoor Recreation and Resource Management
Park and Recreation Management
Recreational Sport Management
Therapeutic Recreation
Tourism Management

See your advisor for information about recreation minors and the Underwater Resource Management Certificate Program.

RECREATION ADMISSION REQUIREMENTS

All majors require students to satisfy the following credit hour and GPA minimums before admission:

- (1) All students must have successfully completed at least 26 credit hours of college course work.
- (2) A minimum cumulative GPA of 2.0 for students majoring in Park and Recreation Management, Recreational Sport Management, and Tourism Management. A minimum cumulative GPA of 2.3 for students majoring in Outdoor Recreation and Resource Management and Therapeutic Recreation.

FRESHMAN YEAR COURSE WORK

Recreation

During the freshman year students usually complete the following:

- **ENGLISH COMPOSITION COURSE**
Elementary Composition or alternative (see ud.iub.edu/fs_composition.php).
- **MATHEMATICAL MODELING COURSE**
MATH-M 118
- **ARTS & HUMANITIES**
Example: CLAS-C 205. See your advisor or the School of HPER Bulletin for choices.
- **NATURAL & MATHEMATICAL SCIENCES**
Example: CHEM-C117. See your advisor or the School of HPER Bulletin for choices.
- **SOCIAL & HISTORICAL STUDIES**
Example: HIST-H 103. See your advisor or the School of HPER Bulletin for choices.
- **WORLD LANGUAGES & CULTURES**
Example: FINA-A 102. See your advisor or the School of HPER Bulletin for choices.
- **MAJOR COURSE(S)**
See your advisor for choices.
- **ELECTIVE COURSE(S)**
Electives vary by program. See your advisor.

MAJORS

Outdoor Recreation and Resource Management Major

The focus of the outdoor recreation and resource management major is to educate the student about

outdoor recreation resources and their users, as well as to provide knowledge and skills required for the profession. Topical areas covered include outdoor recreation, environmental ethics, interpretive techniques, outdoor adventure education, outdoor leadership, nature study, recreational resource management, and organized camping.

Competencies are developed for career positions such as park naturalist, outdoor education coordinator, outdoor program developer, camp program planner, and adventure leader.

Park and Recreation Management Major

The park and recreation management major prepares students for management, supervisory, and leadership positions in public and nonprofit settings, which compose the largest number of possible organizations for employment. Typical job responsibilities include operating solely from grants, working closely with boards, event planning and program development, and understanding both community and societal issues as they relate to program and administration.

Recreational Sport Management Major

The recreational sport management option prepares students to assume direct leadership, supervision, and management positions in participatory sports. The focus is on the management of people and resources in the recreational sport rather than the athletic sport context. Graduates with this option assume sport specialist positions in city recreation and park agencies, business and industrial corporations, YMCAs, colleges and universities, sport and fitness centers, the armed forces, youth-serving agencies, and other facilities.

Therapeutic Recreation Major

Therapeutic recreation is an allied health profession concerned with the treatment of disabling conditions as well as the promotion of health and the facilitation of an optimal quality of life. It uses recreation and leisure experiences as means of intervention with persons of all ages who experience emotional, mental, or physical problems. Completion of the program enables graduates to be eligible to sit for the certification examination of the National Council for Therapeutic Recreation Certification.

Tourism Management Major

The tourism management option prepares students to enter one of the world's most diverse and largest industries. Tourism is the business of attracting and catering to the needs and expectations of visitors. Although the tourism industry includes transportation, travel brokers, and food and housing, students in this program focus on the marketing and management of tourist attractions and destinations. These include government tourism divisions, resort areas, convention centers, theme parks, visitor centers, and conference hotels.

SCHOOL OF HPER GENERAL EDUCATION REQUIREMENTS

All HPER majors must complete the following general education requirements:

■ ENGLISH COMPOSITION

One of the following:

- » ENG-W 131 (C- minimum)
- » ENG-W 170 (C- minimum)
- » ENG-W 131 EX Elementary Composition by Examination (0 cr.)

■ MATHEMATICAL MODELING

One of the following options:

- » MATH-A 118
- » MATH-M 118
- » MATH-S 118
- » MATH-J 113
- » MATH-M 119
- » MATH-M 211
- » MATH-M 213
- » or the combination of MATH-D 116 and D 117

■ ARTS & HUMANITIES

6 credits from a list of approved courses from the following departments: AAD, AMID, AMST, CLAS, CMCL, CMLT, COGS, EALC, ENG, FINA, FOLK, FRIT, HISP, HON, INTL, LING, MUS, NELC, PHIL, REL, SLAV, THTR

■ NATURAL & MATHEMATICAL SCIENCES

6 credits from a list of approved courses from the following departments: ANAT, ANTH, AST, BIOL, CHEM, COGS, CSCI, GEOG, GEOL, HPER, HPSC, HUBI, INFO, MATH, MSCI, PHIL, PHSL, PSY, SOC, SPEA, STAT

■ SOCIAL & HISTORICAL STUDIES

6 credits from a list of approved courses from the following departments: AAAD, AFRI, ANTH, BUS, CEUS, CJUS, CMCL, ECON, EDUC, FINA, FOLK, FRIT, GEOG, GNDR, HIST, HON, HPER, HPSC,

INST, INTL, JOUR, LATS, LESA, LING, LSTU, NELC, POLS, PSY, REL, SPEA, SWK, TEL.

■ WORLD LANGUAGES & CULTURES

Complete one of the following three options:

- » Competency at the fourth-semester level in one foreign language
- » 6 credit hours from an approved international experience
- » 6 credit hours from a list of approved World Culture courses in the following departments: AAAD, AFRI, AMST, ANTH, CEUS, CLAS, CMLT, EALC, FINA, FOLK, FRIT, HISP, HIST, HPSC, INTL, JSTU, NELC, PHIL, REL, SLAV.

NOTE: Double counting of courses among the general education requirements is possible everywhere except between the mathematical modeling requirement and the natural and mathematical sciences requirement. Double counting of courses is also possible between general education requirements and major requirements. Careful course selection may result in fewer required courses, leaving more room for electives.

School of Informatics and Computing (INFO)

WWW.INFORMATICS.INDIANA.EDU

The School of Informatics is Indiana University's newest school and among the first in the nation to combine the technical and human aspects of information technology. The school offers two undergraduate majors, one in Computer Science and the other in Informatics. The Computer Science major gives students deep knowledge of the core technologies underpinning the "IT revolution." The Informatics major gives students a more general education in those technologies together with the knowledge of a specific subject area chosen by the student. Both majors give students the concepts and skills they need to fill the continuing need for IT professionals. The School of Informatics has a highly successful Career Center to help students find jobs and internships. Students have opportunities to develop leadership skills through student-run groups and other professional preparation activities.

ADMISSION REQUIREMENTS

To be considered for admission, students must declare an intended major in Informatics or the Computer Science B.S. major and pass 26 credit hours of course work with a minimum cumulative GPA of 2.0. The 26 credit hours must include ENG-W 131 Elementary Composition or equivalent (with a minimum grade

of C) or exemption from the English composition requirement. Students seeking admission to the Informatics B.S. degree program must, in addition, complete MATH-M 118 Finite Mathematics or equivalent (with a minimum grade of C) and INFO-I 101 Introduction to Informatics (with a minimum grade of C).

BACHELOR OF SCIENCE IN INFORMATICS

The informatics major blends technical knowledge with traditional areas of study. Majors not only gain a general knowledge of fundamental notions involving information and computation, but they also learn how digital technologies relate to their chosen area of interest. All informatics majors choose an area of special focus called the cognate area. There are many cognate areas to choose from including biology, business, chemistry, fine arts, telecommunications, and many more. The cognate allows majors to follow their own personal interests while developing a strong set of technology skills. The students also study the human, social, and organizational issues surrounding technology. As seniors, informatics majors fulfill a capstone requirement, usually by working in teams on real projects for real clients.

The student majoring in informatics is required to take 26 credit hours of informatics core courses, 9 credit hours of informatics electives, and 15-21 credit hours in an informatics-related subject area, referred to as a cognate area. Students must complete specific general education requirements and successfully complete a senior capstone project. The school offers a strong honors variant of the B.S., which includes honors versions of most core classes.

Freshman Year Course Work

During the freshman year, students who are pursuing an informatics major usually take the following courses:

- **ENGLISH COMPOSITION COURSE(S)**
ENG-W 131 (Elementary Composition or alternative; see ud.iub.edu/fs_composition.php) with a grade of C or higher
- **MATHEMATICS COURSE**
MATH-M 118, MATH-D 116-MATH-D 117, MATH-A 118, or MATH-S 118 with a grade of C or higher. Some students may need to take MATH-M 014 or MATH-M 018 as preparation for their mathematics course. No credit toward graduation is awarded for MATH-M 014 or MATH-M 018.
- **SPEECH COMMUNICATION COURSE**
CMCL-C 121 or approved substitute

■ GENERAL EDUCATION COURSES

Choose arts and humanities, social and historical studies, or natural science courses. See the Course Descriptions booklet for courses designated A & H or S & H. See the School of Informatics Bulletin for a list of natural science courses.

■ MAJOR COURSES

INFO-I 101 Introduction to Informatics (minimum grade of C)
 INFO-I 202 (P: I 101) Social Informatics
 INFO-I 201 (P: INFO-I 101, MATH-M 118) Math Foundations of Informatics

■ COGNATE AREA COURSE(S)

Students generally wait until after the freshman year to determine the cognate area. If you have chosen an area already, discuss this with your advisor.

■ GENERAL ELECTIVE COURSE(S)

INFO-Y 100 Exploring Informatics and Computer Science

Students should take no more than two elective courses in their freshman year.

Cognate Areas

Sometime during the sophomore year, majors usually choose a cognate area to reflect a special area of interest. Students should plan to take most cognate area courses in the junior and senior years. For up-to-date information about available cognate areas, please consult the Informatics and Computing bulletin (www.indiana.edu/~bulletin/iu/inform_ug/2008-2010/index.shtml) or speak to a School of Informatics advisor.

Capstone Experience

In their senior year, all informatics majors participate in a capstone experience, where they complete a hands-on project in the design and development of an information system. Examples of capstone projects include the design and development of a database, website, or simulated environment (“virtual reality”). For detailed examples see informatics.indiana.edu/capstone/. The capstone requirement may also be fulfilled by performing an approved project-oriented internship that provides experiences similar to the capstone course, or independent research culminating in a senior thesis.

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Computer science forms the conceptual foundation of the information revolution and spans a broad spectrum of fields ranging from mathematical foundations to user applications. A high level of computer literacy is

an essential component of any well-rounded education and is increasingly an indispensable part of all professional careers. Because computer science and its uses and the economy are so diverse, majoring in the field can also be usefully combined with very different skills—technical, conceptual, and social.

The student interested in pursuing a B.S. in Computer Science (a B.A. is offered through the College of Arts and Sciences) is required to complete 45 credit hours of computer science courses. A suite of four courses form the core of the program (15 credit hours). Students complete approximately 15 credit hours in an area of specialization, and the remaining credit hours in approved computer science electives. Areas of specialization include artificial intelligence, data and search, foundations, programming languages, and systems.

The school offers a strong honors variant of the B.S., which includes honors versions of all of the core courses. The department also offers a professional master’s degree, which is a program of study leading to both a B.S. and a master’s degree in computer science in five years of study.

Students who have completed high school pre-calculus math and have well developed study skills should take CSCI-C 211 or CSCI-H 211. Other students interested in pursuing a B.S. in Computer Science may take INFO-I 101 or INFO-H 101 first, followed by CSCI-C 211 or CSCI-H 211. Any student who has not met the pre-calculus prerequisite may take the preparatory class MATH-M 027 prior to taking CSCI-C 211 or CSCI-H 211; others are strongly encouraged to take MATH-M 211 during their first year.

Freshman Year Course Work

During the freshman year, students who are pursuing a computer science B.S. degree usually take the following courses:

■ ENGLISH COMPOSITION COURSE(S)

ENG-W 131 Elementary Composition or alternative (see ud.iub.edu/fs_composition.php)

■ MATHEMATICS COURSE(S)

MATH-M 211 and M 212 (some students may need to take the preparatory course M 027 before M 211). See your advisor.

■ INTERNATIONAL DIMENSION COURSE(S)

If you wish to study foreign language and plan to continue a language you have studied in high school, the level will be determined by placement exam. Your advisor will help you interpret your score. See your advisor for other options if you do not want to use foreign language to fulfill the

international dimension requirement.

■ GENERAL EDUCATION COURSES

Choose from courses designated arts and humanities (A&H) or social and historical studies (S&H) in the course descriptions booklet section of the *University Division Guide* or natural science courses (see advisor).

■ MAJOR COURSES

CSCI-C 211 and CSCI-C 212 (INFO-I 101 recommended before C 211 if needed). See advisor.

■ GENERAL ELECTIVE(S)

INFO-Y 100 Exploring Informatics and Computer Science

No more than two electives should be taken in the freshman year.

School of Journalism (JOUR)

WWW.JOURNALISM.INDIANA.EDU

As you prepare for orientation, visit the website (www.journalism.indiana.edu) and select “Undergraduate Studies,” then “Undergraduate Academics” and “Undergraduate Advising.” On that page, see “Fall 2010 Freshman Course Selection Guidelines” for a list of courses that meet requirements.

Indiana University was one of the first state universities to teach journalism, beginning in 1893. A department was established in 1911 and the School of Journalism in 1974. The mission of the baccalaureate program is to help students explore the institutions, procedures, professional skills, and audiences of journalism and mass communication. The school is committed to liberal education in the arts and sciences as well as to professional training in the skills of journalism and mass communication. The school believes that both breadth and depth of learning must characterize the undergraduate experience.

BACHELOR OF ARTS IN JOURNALISM (B.A.J.)

In almost every journalism class, students are taught a combination of knowledge, skills, values, and ethics. The goals of the curriculum are:

- to develop skills in thinking and judgment, in gathering, organizing, and presenting information in words, images, and numbers on paper, on the air, and online;

- to graduate students with both visual and verbal literacy and the flexibility to respond to changing media environments; and
- to promote the professional values of truth, accuracy, and fairness.

Exploration of multiple media skills is a key goal of core courses JOUR-J 200 and J 210. In sophomore, junior, and senior years, students take classes from a wide selection of specialized journalism electives, from areas such as advertising, broadcast news, graphic and online communication, magazines, newspapers, photojournalism, public relations, and journalism education.

Graduates begin with jobs as copywriters, reporters, advertising and public relations account managers, editors, and web and graphic designers. Some go on to careers as TV news anchors, attorneys, publishers, and upper-level managers in business. Alumni have been associated with media such as CNN, *Seventeen*, the *Chicago Tribune*, *The Miami Herald*, *The Washington Post*, and *National Geographic*.

The online newsletter, *Undergrad FYI*, contains information on internships, jobs and other media-related opportunities. In addition, all students should subscribe to iujournalismcareers.com.

ADMISSION REQUIREMENTS

To be considered for admission, students must pass 26 credit hours with at least a 2.20 cumulative GPA. The 26 credits must include one from the following three journalism courses, JOUR-J 110, J 200, J 210, with a grade of C or higher; English composition (C or higher), fundamental mathematics (C- or higher; see below); and one semester of a foreign language. The School of Journalism requires an application for admission. Applications are reviewed when grades are official at the end of the fall, spring, and summer sessions.

FRESHMAN YEAR COURSE WORK

During the freshman year, students who are pursuing a journalism major usually complete the following:

- **ENGLISH COMPOSITION COURSE(S)**
ENG-W 131 Elementary Composition or alternative (see ud.iub.edu/fs_composition.php).
- **MATHEMATICS COURSE**
Choose from MATH-M 025*, M 027*, M 118/S 118 (D 116-D 117 if eligible), A 118, M 119, M 211

Students earning math test scores at or above 650 on the SAT exam or at or above 29 on the ACT exam are exempt from the fundamental skills math requirement.

Any of the above courses may be used to fulfill the fundamental skills math requirement. Your advisor will help you finalize your choice based on your major, your background, high school test scores and grades, and your IUB Mathematical Skills Assessment score.

Some students may need to take MATH-M 014 (or M 018) as preparation for the fundamental skills math course. No credit toward graduation is awarded for either of these two courses.

Note: M 025 and M 027 may be used to fulfill the fundamental skills math requirement, but no credit toward graduation is awarded for either of these courses.

■ FOREIGN LANGUAGE COURSE(S)

If you previously studied the language, the level will be determined by placement exam. Your advisor will help you interpret your score. See the *Course Descriptions* booklet for a list of foreign language areas.

Note: The B.A.J. requires completion of the fourth semester of a foreign language.

■ GENERAL EDUCATION DISTRIBUTION COURSES

Choose from:

- United States history (HIST-H 105 or H 106; see your advisor for other options)
- American political science (POLS-Y 100 or Y 103; see your advisor for other options)
- Literature or history of art (A&H)
- Other arts and humanities (A&H)
- Natural and mathematical sciences (N&M)
- Culture studies (see your advisor for lists)

See the courses section of the *University Division Guide* for distribution designation of arts and humanities (A&H) and natural and mathematical sciences (N&M) courses.

You may also visit the website (www.journalism.indiana.edu) and select “Undergraduate Studies,” then “Undergraduate Academics” and “Undergraduate Advising” to find a list of fall courses that fulfill the above requirements: “Fall 2010 Freshman Course Selection Guidelines.”

■ MAJOR COURSES

JOUR-J 110, J 155, J 200, J 210

■ SECOND CONCENTRATION

The second concentration is required in addition to the journalism major. Students are required to study in another subject, earning 24 credit hours, or about eight courses, in a College of Arts and Sciences department or another school at IUB. Telecommunications cannot be used for this second concentration. If you know what subject you want for this requirement, you may begin courses your freshman year. See your advisor for further explanation.

Choose one or two courses if you have chosen an area. Some students wait until after the freshman year to determine the second concentration.

■ ELECTIVE COURSE(S)

The School of Journalism allows a limited number of electives in the program and recommends that students limit electives taken during the freshman year. If you plan to take electives, you may want to consider some 1 or 2 credit hour courses to help “round out” your schedule.

Jacobs School of Music (MUS)

WWW.MUSIC.INDIANA.EDU

The Jacobs School of Music is one of the leading institutions of its kind. Performance majors have the unique opportunity to combine a high-quality conservatory experience with a college education. Students in all majors have access to an outstanding faculty and a wide choice of majors related to the field of music. The mission of the Jacobs School of Music is to provide distinguished instruction and outstanding opportunities for performance, research, and teacher training for music majors and non-music majors.

MAJORS

The Jacobs School of Music offers majors in Performance (historical or modern instrument or voice), Composition, and Jazz studies leading to the Bachelor of Music (B.M.) degree. It also offers a Bachelor of Music Education (B.M.E.) degree. For this degree, you can be a Choral, General, or Instrumental major. You can then be certified to teach band, orchestra, chorus, or general music in public schools. Bachelor of Science (B.S.) degrees are offered in Ballet, Recording Arts, and Music with an outside field. This last option provides an opportunity to study music plus another field at the major level (27 credit hours). Associate degrees are offered in Recording Arts and String Instrument Technology.

ADMISSION TO THE SCHOOL OF MUSIC

Most music majors pursuing B.S., B.M., and B.M.E. degrees are accepted directly into the Jacobs School of Music, not the University Division. This admission follows formal application to the school, a successful audition in a performance area, and completion of orientation and first-semester registration. Students should refer to the Music Undergraduate Office for all academic matters.

Exceptions to this type of admission include students pursuing the string instrument technology degree.

Some students apply for admission and are accepted to the B.S., B.M., B.M.E., or the A.S. (Recording Arts) while in University Division. Refer to the section with information for students not accepted into the School of Music on p. 39.

INFORMATION FOR STUDENTS ACCEPTED INTO THE JACOBS SCHOOL OF MUSIC

Students accepted into the Jacobs School of Music meet with advisors on a special day during the regular advising and registration program in the summer, or during the week preceding the beginning of classes in the fall or spring term.

During the music orientation, students will have a required informational meeting with the Music Undergraduate Studies advisor, followed by individual advising appointments. Students will take required music placement tests in music theory and secondary piano and also have the opportunity to take university placement tests in mathematics, foreign languages, and other subjects in which they seek to earn advanced placement and credit. During the summer advising and registration program, these examinations are given on the day before advising and registration.

Students interested in earning advanced credit in music theory may do so in a series of examinations given only Thursday and Friday before the first week of classes of the fall and spring terms. Schedules for these examinations are posted outside the Music Theory Office (Simon 225) or online at theory.music.indiana.edu.

Credits in music theory earned through the Advanced Placement Program or transferred from other universities must be validated by examinations before they can be used to meet degree requirements.

Freshman Year Course Work

Accepted music majors usually complete courses from the following:

- **ENGLISH COMPOSITION COURSE(S)**
ENG-W 170 (3 cr.) recommended; ENG-W 131 (3 cr.) or other option acceptable. Exemption: see ud.iub.edu/fs_composition.php.
- **FOREIGN LANGUAGE**
All music majors except B.M.E. and A.S. students are required to complete two terms (or one term of accelerated study) in a foreign language. Voice students must complete two terms each of French, German, and Italian. This requirement may also be met through an exemption/credit exam or AP credit.
- **ENSEMBLE**
All music majors must enroll in ensemble each semester. Ensembles meet for one or two periods daily, typically between 2:30 p.m. and 6 p.m. Assignments will be posted during the first week of classes. All instrumental ensembles are MUS-X 040 (2 cr.); all choral ensembles (for voice, piano, and guitar students) are MUS-X 070 (2 cr.); ballet is MUS-X 030 (2 cr.); early music is MUS-X 060 (2 cr.).
- **PERFORMANCE STUDY**
All music majors except those in ballet, recording arts, and A.S. degrees should enroll for performance (private applied music lessons). Credit hours of performance study depend on your degree: B.M. performance, (6 cr.); B.M.E., B.S., B.M. composition (2 cr.); B.M. voice or B.M. jazz (3 cr.).
- **MUSIC THEORY**
If you have passed the Basic Musicianship Test (BMT) (70 percent), enroll in MUS-T 151. If you did not pass the test, but achieved a score between 50 and 68, register for both MUS-T 109 and T 151. If you had a score below 50, take MUS-T 109 only.
- **SECONDARY PIANO**
All students except those whose primary instrument is piano, guitar, organ, or harp, or whose majors are in early music or B.S. programs, must take piano class until the keyboard proficiency is passed.
- **GENERAL EDUCATION**
Choose from courses designated A&H, S&H, or N&M in the course descriptions section of the *University Division Guide*.

B.S. with an Outside Field: If you would like to explore some possible areas for your outside field, you can do this through your general education courses.

■ **MUSIC EDUCATION COURSE**
(for B.M.E. students only)

You may enroll in MUS-E 131 Introduction to Music Education (2 cr.). Consult your advisor regarding appropriate courses.

Possible First-Term Plans for Accepted Music Majors

B.M. PERFORMANCE, INSTRUMENT OR VOICE

Instrumental ensemble MUS-X 040 (2 cr.) or Choral ensemble MUS-X 070 (2 cr.)
Performance lessons, instrumental (6 cr.) or voice (3 cr.)
Music theory (3–6 cr.)
Class piano MUS-P 111 (2 cr.)—except guitar, organ, harp, piano, and early music majors
English composition (3 cr.)
Foreign language or additional general education course if space permits
TOTAL 16–19 cr.

COMPOSITION

B.M. composition students take only 2 credit hours of performance lessons and should take MUS-K 400 Composition Lessons, MUS-K 133 Notation and Calligraphy, and MUS-K 214 Instrumentation.

JAZZ STUDIES

B.M. jazz studies students take only 3 credit hours of performance lessons and should take MUS-O 321 Jazz Improv I.

B.M.E.—INSTRUMENTAL OR CHORAL/GENERAL

Instrumental ensemble MUS-X 040 (2 cr.) or Choral ensemble MUS-X 070 (2 cr.)
Performance lessons (2 cr.)
Music theory (3–6 cr.)
Class piano MUS-P 111 (2 cr.)
E 131 Introduction to Music Education (2 cr.)
English composition (3 cr.)
General education course if space permits (3 cr.)
TOTAL 18 cr.

B.S.—OUTSIDE FIELD—VOICE OR INSTRUMENT

Instrumental ensemble MUS-X 040 (2 cr.) or Choral ensemble MUS-X 070 (2 cr.)
Performance lessons (2 cr.)
Music theory (3–6 cr.)
Class piano MUS-P 111 (2 cr.)—except for guitar, piano, harpsichord, and organ majors
English composition (3 cr.)

Foreign language or course to explore outside field (3–4 cr.)

TOTAL 16–19 cr.

B.S.—RECORDING ARTS

MUS-X 090, MUS-A 101, A 111, A 150
English Composition (3 cr.)
Minor course or theory course

B.S.—BALLET

Ballet ensemble MUS-X 030 (2 cr.)
Ballet major MUS-J 400 (6 cr.)
Class piano MUS-P 110 (2 cr.)
Theatre elective (3 cr.)
Foreign language (4 cr.)

TOTAL 17 cr.

Note: Music theory course numbers and credit hours will be determined by performance on the Basic Musicianship Test given before advising.

INFORMATION FOR STUDENTS NOT ACCEPTED INTO THE JACOBS SCHOOL OF MUSIC

Most B.M., B.M.E., and B.S. (nontechnical) students who are interested in a music major but have not yet been accepted may begin course work for the major while in the University Division.

Admission to the Jacobs School of Music from the University Division

Admission is very competitive. Students must apply to the Jacobs School of Music and arrange for a fall audition for spring semester admission. Auditions scheduled for January are too late for spring admission. For more information concerning admission and the application, contact the Music Admissions Office, Merrill Hall 101, (812) 855-7998.

Freshman Year Course Work

During the freshman year, students who plan to apply for the B.M., B.M.E., or B.S. (not audio recording) should choose from the following:

■ **ENGLISH COMPOSITION**

See ud.iub.edu/fs_composition.php

■ **FOREIGN LANGUAGE**

All music majors except B.M.E. and A.S. students are required to complete two terms of foreign language. Voice students must complete two terms each of French, German, and Italian. This requirement may also be met through an exemption/credit exam or AP credit.

■ SPEECH COMMUNICATION

Required only for B.M.E. students. Choose CMCL-C 121 or C 122.

■ ENSEMBLE

Consult the course descriptions section of the *University Division Guide* regarding ensemble choices and auditions.

Choral Ensemble Music MUS-X 070
Instrumental Ensemble MUS-X 040
Ballet Ensemble MUS-X 030
Marching Hundred MUS-X 050
All-Campus Ensemble MUS-X 001

■ PERFORMANCE STUDY

Select the MUS-Z 110 music performance course corresponding to your interest from the Private Performance Lessons listed under “Music” in the course descriptions section of the *University Division Guide*.

■ MUSIC THEORY

Music theory course selections should match students’ backgrounds:

- a. If you have an excellent background in music theory, register for MUS-T 151 (3 cr.), the first core music theory course.
- b. If you have an average background in music theory, register for both MUS-T 151 and MUS-T 109 Rudiments of Music (3–3 cr.).
- c. If you have a deficient background in music theory, register for MUS-T 109 (3 cr.).
- d. Take the Basic Musicianship Test during the week preceding the start of classes. If your test score does not place you into the music theory course that you have chosen, you will then adjust your schedule to include the music theory course(s) appropriate to your background.

Test scores: 70 or above: You are exempt from MUS-T 109; take T 151. 50–68: Take both MUS-T 109 and MUS-T 151. Below 50: Take only MUS-T 109.

Note: MUS-T 151 is offered only in the fall semester.

■ PIANO

If you are a non-music major, and your main instrument is something other than piano, organ, or guitar, you should register for MUS-P 110. This is a beginning class. If you wish to investigate more advanced classes, take the secondary piano

placement examination during the orientation preceding the fall or spring semester. The schedule is available from the secondary piano coordinator, MA 010.

■ GENERAL EDUCATION

Choose from courses designated A&H, S&H, or N&M in the course descriptions section of the *University Division Guide*.

■ MUSIC EDUCATION (FOR B.M.E. STUDENTS ONLY)

Students interested in music education may take MUS-E 131 Introduction to Music Education (2 cr.) during the first or second semester.

INFORMATION FOR STUDENTS INTERESTED IN THE B.S. OR THE A.S. IN RECORDING ARTS

Admission to the B.S. or A.S. Degree Program

Admission for University Division students into the A.S. or B.S. Degree Program in the Recording Arts is very competitive. Students seeking admission from University Division should follow the Jacobs School of Music admission procedures, submit applications by December 1, and interview on audition weekends in the spring. Admitted students will begin the program the following fall semester. For more information, see www.music.indiana.edu/departments/audio/admission.shtml.

Freshman Year Course Work

During the first year, students who are interested in being admitted to the Audio Recording Program (B.S. or A.S.) usually complete the following:

■ ENGLISH COMPOSITION COURSE(S)

See ud.iub.edu/fs_composition.php. Students choosing ENG-W 131 or W 170 may decide to postpone this course until the second semester.

■ FOREIGN LANGUAGE COURSE

Required only for B.S. students who need two semesters for graduation (or one semester of accelerated study).

■ CORE MUSIC COURSES

MUS-Z 101 and Z 111 (MUS-T 151 may be substituted for the two courses.)

See information about MUS-T 109 in music theory

section on p. 63 of the *University Division Guide*. Some students will need to take MUS-T 109 before or with T 151.

■ GENERAL EDUCATION COURSES

Choose from PHYS-P 105, some other course for an area of interest in an outside concentration (B.S.) or a bachelor's degree in another area (A.S.), or a distribution area course (A&H, S&H, or N&M).

OTHER TECHNICAL MUSIC DEGREES

For information regarding admission and degree requirements for String Instrument Technology, contact the Jacobs School of Music, Admissions Office.

School of Nursing (NURS)

WWW.INDIANA.EDU/~IUBNURSE

NURSING APPOINTMENT PHONE: 812-855-1736

BACCALAUREATE CURRICULUM

Founded in 1914, the Indiana University School of Nursing is among the largest nursing schools in the United States and offers bachelor's through doctoral degrees. The IU School of Nursing is one school with various programs on eight campuses. The IU Bloomington (IUB) and Indianapolis (IUPUI) programs are part of the "Core" and have equivalent prerequisites and nursing core courses. This means that you may apply to both programs, listing one as your first choice and the other as your second choice. To complete the four-year B.S.N., you take a minimum of one year of prerequisite nursing / general education (nursing cluster) courses, and once you are admitted to the School of Nursing, you will take three years of nursing core courses. You will have completed 50 credit hours of general education courses and 75 credit hours of nursing core courses for a total of at least 125 credit hours for the B.S.N. degree.

ADMISSION REQUIREMENTS FOR IU BLOOMINGTON SCHOOL OF NURSING—FALL 2011

Admission to the School of Nursing at IUB and IUPUI is extremely competitive. All courses counting toward admission must have a grade of C or higher. While the minimum nursing application GPA required to apply is 2.7, the actual nursing GPA for admitted students is considerably higher. Criteria other than grades are also considered in the application process. Admission to the IUB School of Nursing is based upon the following criteria:

IU Cumulative GPA—A minimum of 2.7 is required.

Nursing Application GPA (60%)—Your Nursing Application GPA must be at least 2.7 at the time of application. The School of Nursing divides different types of classes into groups called "clusters." The Nursing GPA is calculated from the 29–31 cluster credit hours that you list on your application. These courses/credits must include: Anatomy (5 credits); Finite Math (3–4 credits); an additional 3 credit critical-analytical-science course; English Composition (3 credits); Introductory Psychology (3 credits); and Introductory Sociology (3 credits). You will select the remaining credit hours from the approved list of cluster courses, to which you will be directed later in this section.

Interview, Essay, Investigation of the Profession and Community Service (40%)—The top 75% of eligible applicants may be interviewed. The students who will be interviewed are determined by ranking the nursing GPAs of the eligible applicants who have listed the same campus as their first choice. In addition, as part of the application you will write a 500-word essay. The School of Nursing strongly recommends that all pre-nursing students undertake job shadowing and investigation of the profession by work experience and community service in health care or service agencies, volunteer experience in health care or service agencies with direct client contact/interactions, completion of a pre-nursing course, performance-based programs, etc.

Chemistry—There are two ways to satisfy the chemistry requirement for the nursing application. If you have completed two semesters or trimesters (or one year) of high school chemistry—with a grade of C or above in each term—you may submit your high school transcript to satisfy the chemistry requirement OR you may use a college introductory chemistry course (lecture and discussion only) if you earned a grade of C or above. Your college chemistry could also count toward your critical-analytical-science cluster credit.

Note: More detailed information is available in the [2010-2011 Pre-Nursing Handbook](#), which is posted on the IU Bloomington Nursing homepage (www.indiana.edu/~iubnurse/). The Indiana University School of Nursing reserves the right to make changes in the admission criteria. *Meeting all admission criteria for the School of Nursing does not guarantee admission.* If you have questions about the admission criteria, you may contact a School of Nursing advisor in the fall to schedule an appointment (contact information below). Note that meeting with a School of Nursing advisor is not a substitute for meetings with your assigned University Division advisor during the semester.

PRE-NURSING AT IU BLOOMINGTON

Nursing is a scientific profession with a comprehensive vision of the patient. Nurses care for people's physical, emotional, psychological, intellectual, social, and spiritual needs. Therefore, the knowledge base of the profession centers on both the natural sciences and the social sciences. The Bachelor of Science in Nursing (B.S.N.) major seeks to teach students how to assess, develop, plan, implement, and evaluate plans of care for individuals, families, and communities.

Academic preparation to take the Registered Nurse (RN) licensure examination can be earned through a Bachelor of Science in Nursing (B.S.N.). **The four-year B.S.N. degree can be completed on campuses throughout the IU system, including the Bloomington campus.** To become a licensed Registered Nurse, you must complete the degree requirements of an accredited B.S.N. program and satisfactorily complete the National Council Licensure Examination (NCLEX) after graduation and licensure requirements for the state in which you plan to practice.

IMPORTANT:

Admission to the nursing program is extremely competitive. Thoroughly read and pay close attention to the following directions, options, and advice. If you have questions, you may contact a School of Nursing advisor in the fall to schedule an appointment. Note that meeting with a School of Nursing advisor is not a substitute for meetings with your assigned University Division Advisor during the semester.

Admission is Competitive

Admission to the nursing program on the Bloomington campus is extremely competitive; 60 students are admitted to the nursing program for each fall term. Approximately 200–260 applications are submitted each year. Admission is based upon grades, an interview, written essay, exploration of the nursing profession, and community service.

Statistics show that students who invest at least 30 hours outside of class on academics (e.g., studying, reading, getting help when needed, etc.) for every 15 hours spent in class are more successful than students who invest less time. *If you choose not to follow this advice, be aware that you may be making a decision to be less competitive for admission to the School of Nursing than you might otherwise be!*

Admission Criteria and Grade Point Average

The School of Nursing evaluates two different GPAs when you apply.

- Your cumulative GPA (based upon only IU courses) must be a minimum of 2.7 to be eligible to apply.
- Your nursing application GPA (based upon IU courses and transfer courses if you have transfer credit) must also be a minimum of 2.7 to be eligible to apply. This is a minimum only, as competitive applicants far exceed this GPA. **Competitive applicants will need a nursing application GPA of 3.3 or higher.** The nursing GPA is calculated from the courses you list on your application (total of 29–31 credits).

Shadowing Nurses and Community Service Experiences

Shadowing of registered nurses in a variety of health care settings is strongly recommended. It can also help you decide if nursing is the best choice for you, or whether you need to explore other majors. It is very important that you have a clear understanding of the role of the registered nurse. Shadowing helps you see the day-to-day responsibilities that an RN may have. You cannot complete too much shadowing—every shadowing experience provides you with valuable information.

You can schedule shadowing experiences at a hospital or clinic in your hometown, or you can apply to shadow at Bloomington Hospital once you come to campus. Because shadowing opportunities at the hospital are limited, you are encouraged to obtain as much shadowing experience as possible before you come to campus. Contact a nursing advisor for more information about job shadowing at Bloomington Hospital.

Engaging in community service through volunteer experiences is also recommended as a way to investigate the profession of nursing. Many students have participated in volunteer activities through their high school, by working with health care or other service agencies with *direct client contact*. Bloomington itself has many such *direct client contact* service opportunities. Academic advisors can direct you to resources.

PREPARING FOR SUMMER ORIENTATION

Planning Your Fall Schedule of Classes

At this point, you are preparing to meet with an advisor at Summer Orientation to plan your schedule of classes for the fall semester. If you have taken courses for college credit in high school or if you have taken AP courses and have taken the written examination for which you hope to earn college credit, you need to let your summer advisor know so this information can be taken into account when planning your fall courses. You

may be able to use AP or placement credit for up to two courses on your nursing application.

Course Load for the Fall Semester

A normal course load for pre-nursing students is 14-16 credit hours, depending on the mix of classes. Pre-Nursing students must take six required courses to be eligible to apply to nursing. These include: anatomy, finite math, one 3 credit science course, elementary composition, introductory psychology and introductory sociology. You should plan to take 3 of the required courses in the fall and the remaining three courses in the spring. In addition, you will register for 1-2 additional general education cluster courses to round out your fall schedule.

Pre-Nursing Prerequisites (Freshman Year Courses)

Try to register for three of the six specifically required cluster courses in the fall semester. You will take the remaining required cluster courses in the spring semester. Work with your Orientation academic advisor to balance your schedule—for example, some students are more successful if they don't have all of their science courses in the same semester.

- (1) **Human Anatomy** (ANAT-A 215)—5 credits
 - If the course is full, you may be advised to place your name on a waitlist for the class.
 - If you don't take this course in the fall semester, you can register for the course for spring semester.
 - We urge you to follow the anatomy study tips at: <http://hpplc.indiana.edu/ohp/AnatomyStudyTips.shtml>
- (2) **Finite Math** (MATH-M 118, MATH-A 118 or MATH-D 116/MATH-D 117)—3-4 credits
 - The course you take will be determined by your score on the math placement test you take as part of summer orientation.
 - MATH-M 211—Calculus I or MATH-M 212—Calculus II may be used in place of Finite Math.
- (3) **One 3-5 credit Critical/Analytical/Science Course**—an additional course from the Critical/Analytical/Science section of the Nursing cluster list
- (4) **Elementary Composition** (ENG-W 131 or ENG-W 170)—3 credits
- (5) **Introductory Psychology** (PSY-P 101, PSY-P 102, PSY-P 106, or PSY-P 155)—3 credits. For most students, PSY-P 101 is the best choice.

- (6) **Introductory Sociology** (SOC-S 100 or SOC-S101)—3 credits
- (7) **Remaining Cluster courses**—You will complete your fall schedule by registering for an additional one or two cluster courses from the following areas:
 - Humanistic Appreciation Cluster—you may take no more than 3 credits
 - Cultural Diversity Cluster—you may take no more than 6 credits
 - Social Competence Cluster—you may take no more than 3 credits
 - Communication Cluster—you may take no more than 3-4 credits

VERY IMPORTANT:
PRIOR TO YOUR ORIENTATION ACADEMIC ADVISING APPOINTMENT, YOU MUST CAREFULLY FOLLOW THE DIRECTIONS ON THE [PRE-NURSING REGISTRATION INSTRUCTIONS PAGE](#). PRINT AND THOROUGHLY COMPLETE THE SPECIAL PRE-NURSING ACADEMIC PLANNING WORKSHEET (PRE-NURSING APW), WHICH YOU WILL FIND ON THE [PRE-NURSING REGISTRATION INSTRUCTIONS PAGE](#). DOING SO IS REQUIRED, NOT OPTIONAL!

DO NOT USE THE PRE-NURSING CLUSTER LIST ON THE SCHOOL OF NURSING WEBSITE TO PLAN YOUR CLASSES, SINCE MANY OF THE COURSES ON THAT LIST ARE NOT OFFERED IN FALL SEMESTER, ARE TOO ADVANCED, OR HAVE PREREQUISITES. YOU MAY ONLY SELECT COURSES FROM THE ORIENTATION CLUSTER COURSE LIST, LIKEWISE PROVIDED ON THE [PRE-NURSING REGISTRATION INSTRUCTIONS PAGE](#). DOING SO IS REQUIRED, NOT OPTIONAL! FOLLOWING THESE INSTRUCTIONS WILL SAVE YOU TIME AND HASSLE ON THE DAY YOU REGISTER FOR CLASSES! BY DOING SO, YOU WILL BE ABLE TO TAKE COURSES THAT YOU WILL ENJOY, AND WHICH YOU CAN USE ON THE NURSING APPLICATION.

Plan B and Nursing Admission Data

As noted, admission to the School of Nursing is extremely competitive. Typically, 200-260 applications are received each year for the 60 spaces at IUB. Therefore, all pre-nursing students should develop a Plan B, which focuses on other options you may explore if you are not admitted to the School of Nursing the first time you apply. Your Plan B might include: applying to other IU or non-IU nursing programs; re-applying for spring admission to IUPUI nursing (Indianapolis campus), and perhaps re-applying to IUB nursing the

following fall, and/or exploring other majors or health professions. Discuss your Plan B with your assigned University Division academic advisor. In addition, you may also meet with a School of Nursing advisor to discuss other nursing options, like re-applying, other options for obtaining your RN, or career possibilities for advanced practice nursing (for example, nurse practitioner). Note that meeting with a School of Nursing advisor is not a substitute for meetings with your assigned University Division Advisor during the semester.

Pre-Nursing Email Distribution List

If your official declared major is Pre-nursing, your name will automatically be added to the Pre-Nursing List Serv. If you are an exploratory student or have not firmly decided to change your major to Pre-Nursing, you need to email the nursing advisor so your name can be added. **If you are considering applying to nursing, your name needs to be on the Pre-Nursing List Serv so you receive all communication about the nursing application process.**

To be added to the email list, please contact:

Debbie Hrisomalos, RN, MSN, MBA
Nursing Advisor
dhrisoma@indiana.edu

Important Upcoming Dates and Meetings

Only students who are on the School of Nursing Email List will be notified of these important dates and meetings (so make sure that you are on the Pre-Nursing List Serv!)

- **School of Nursing Mandatory Application Information Sessions**—offered during October and November
- **Fall 2011 Nursing Application (online) and any additional application documents**— accepted January 15-March 15, 2011
- **FASFA (Free Application for Federal Student Aid) deadline**—March 1, 2011
- **Pre-Nursing and Nursing Scholarships**—available online April 1, 2011
- **Admission to IU School of Nursing notification** approximately June 1, 2011

Note that the Health Professions and Prelaw Center will be holding Prenursing Survival and Success Strategy meetings as well as Plan B Options meetings during the year.

School of Nursing Advisors

If you have questions about the admission criteria, you may contact a School of Nursing advisor in the fall to schedule an appointment (be sure to include days and times when you are available). Note that meeting with a School of Nursing advisor is not a substitute for meetings with your assigned University Division Advisor during the semester.

Debbie Hrisomalos, RN, MSN, MBA
Assistant Director of Student Services and Nursing Advisor
dhrisoma@indiana.edu

Leslie Hobbs-Ramsey, BS, MS
Pre-Nursing Advisor
lhobbsra@indiana.edu

REMEMBER:
PRIOR TO YOUR ORIENTATION ACADEMIC ADVISING APPOINTMENT YOU MUST CAREFULLY FOLLOW THE DIRECTIONS ON THE [PRE-NURSING REGISTRATION INSTRUCTIONS PAGE](#), AND THOROUGHLY COMPLETE THE PRE-NURSING APW, ALSO FOUND ON THE PRE-NURSING REGISTRATION INSTRUCTIONS PAGE. DOING SO IS REQUIRED, NOT OPTIONAL!

FREQUENTLY ASKED QUESTIONS REGARDING ADMISSION TO THE NURSING PROGRAM

If I am admitted to the Bloomington campus will I have to go to Indianapolis at some point?

After at least one year of prerequisites, students admitted to the B.S.N. major in Bloomington will spend the entire three years of the major in Bloomington. Likewise, students admitted to other campuses (IUPUI, Kokomo, etc.) will spend the entire three years of the major on the campus where they accept an offer of admission.

How many students are admitted to Bloomington?

The Bloomington campus admits only one time each year—60 students each fall. The spaces available at IUPUI will vary depending on the total number of applicants and available instructional resources. IUPUI admits for both fall and spring semesters (approximately 100 students in fall and 100 students in spring).

Is it harder to get into Bloomington than it is IUPUI?

Not necessarily. Although Bloomington has fewer spaces than IUPUI, the difficulty of gaining admission to either campus depends entirely on the number of applicants, the total ranking of all criteria for each of the applicants, and how the applicants rank their campus preferences.

What science course is required for admission?

Basic Human Anatomy (ANAT-A 215) is required. If a pre-nursing student is unable to enroll in ANAT-A 215 on the Bloomington campus (and the student has waitlisted the class in fall and spring semesters), the School of Nursing in Bloomington will accept Human Physiology (PHSL-P 215) on the application. Please contact a nursing advisor with your questions. If you have taken physiology but still need anatomy, you must successfully complete ANAT-A 215 Human Anatomy (5 credits)—during the summer session (2011) prior to the first semester of your nursing courses.

What can I do to improve my chances of admission?

Concentrate on the courses in which you are currently enrolled. Grades from the classes you are currently taking will count in the final admission decisions and you should make the most of this opportunity. An important element in being prepared for the interview and Exploring the Profession of Nursing requirements is to shadow nurses and undertake rigorous research of the nursing profession through volunteer work, employment, or internships.

What can I do if I'm not admitted?

There are many options. You can apply again during a future admission cycle. You can continue to take the general education requirements, possibly taking some courses over in an effort to improve your GPA. You could begin taking courses toward a minor. You could change your major or consider other health professions. You could consider transferring to another nursing school outside of the IU system. Discuss your Plan B with your assigned University Division academic advisor. In addition, you may also meet with a School of Nursing advisor to discuss other nursing options, like re-applying, other options for obtaining your RN, or career possibilities for advanced practice nursing (for example, nurse practitioner). Note that meeting with a School of Nursing advisor is not a substitute for meetings with your assigned University Division Advisor during the semester.

Does the School of Nursing maintain an "Alternate List" if I am not admitted?

In case anyone should decline an offer of admission, the School of Nursing keeps a list until the beginning of fall semester of students who could possibly be admitted as alternates. The alternate list does not extend beyond the start of fall semester. Students not admitted for the fall 2011 semester must re-apply for 2012 admission. Applications are not carried over from one semester to another.

Can I increase my chances for admission based on how I rank my preferences on the application?

No. The School of Nursing ranks all applicants in accordance with their overall pre-nursing application rating, highest to lowest. When we get to your name on the list of applicants, we immediately look at your first preference (e.g., IUB or IUPUI). If space is available, that is where you will be offered admission. If space is not available, we will immediately look at your second choice. If there is a space available at your second campus preference, you will be offered admission there. There is no increase or decrease in your overall chance for admission based on the rank of your preferences.

What grades will I need in order to gain admission?

The minimum nursing or application GPA required is a 2.70, and the minimum cumulative GPA required is a 2.70 but the majority of applicants far exceed these minimums.

Will my grades from spring semester count into the admission GPA?

Getting strong grades in your remaining courses is in fact your best opportunity to improve your chances for admission. Courses taken in spring can/should be used on the nursing application. (NOTE: If applying to IUPUI for spring admission, all required courses must be completed by the end of the preceding summer session to be eligible to apply).

When will I hear the final admission results?

For fall 2011 admission, students are notified within the first two weeks of June, 2011, and for spring 2012 admission (IUPUI), students are notified in late November, 2011.

Do I need to contact the Office of Admissions to apply for admission at IUPUI or regional campuses since I have also listed them as a preference on the application?

No. Once you are admitted to an IU campus, you can transfer to other campuses through the intercampus

transfer system. Your transfer will be initiated automatically if you accept an offer of admission to the B.S.N. major on a campus other than the one you are currently attending.

I currently do not meet the eligibility requirements. Can I still apply for admission?

You can apply if you will meet the eligibility requirements by the end of spring semester (for fall admission) and by the end of Summer Session II if applying for spring admission at IUPUI.

I received less than a grade of C in a student-selected cluster course. Should I retake the same course?

Not necessarily. In the case of student-selected cluster courses, students should consult with their academic advisor to determine the best course of action.

If I am eligible for admission to one IU nursing program, am I eligible for admission to all of them?

Not necessarily. Students who apply through the Bloomington campus and are considered eligible for admission to Bloomington will also be considered eligible for admission to Indianapolis (IUPUI). Admission requirements on other IU campuses vary among campuses and you may not necessarily meet those requirements. **If you are interested in meeting the eligibility requirements on campuses other than Bloomington or Indianapolis, please contact a nursing advisor.**

School of Optometry (OPT)

WWW.OPT.INDIANA.EDU

The Indiana University School of Optometry has achieved national recognition for its preeminence in optometric education. The school provides space for classrooms, laboratories, clinics, a library, offices, and supporting research and development activities.

Students seeking admission to the School of Optometry in order to pursue a Doctor of Optometry degree (O.D.) may be admitted upon receipt of a baccalaureate degree or at the end of 90 college credit hours. For additional information on the preprofessional requirements for admission, see the "Preprofessional Studies" section, p. 52.

OPTICIAN/TECHNICIAN PROGRAM

The IU School of Optometry also offers a two-year program in optometric technology leading to the Associate of Science degree. Students completing the program are qualified to begin careers as optometric technicians or opticians. This study offers an excellent entry point into one of the most interesting areas in the health care field.

This program takes four semesters to complete if the student has not taken any college courses. The general nontechnical courses, such as English composition, may be completed either before or after the technical courses. An additional option allows a student to become a laboratory optician by completing courses in lens surfacing and fabrication (Optician's Laboratory Concentration).

For additional information, visit the Optician/Technician Program web page: www.opt.indiana.edu/opttech/.

Or contact the School of Optometry:
800 E. Atwater Avenue
Bloomington, IN 47405
Email: iubopt@indiana.edu
Phone: (812) 855-1917
Fax: (812) 855-4389

CAREER INFORMATION FOR THE OPTICIAN AND THE OPTOMETRIC TECHNICIAN

Opticians fill eyewear prescriptions. Their training includes dispensing eyewear, selecting frames, taking facial measurements, and choosing the best lens style for the patient. They take the order written by an eye doctor, produce the lenses with the correct prescription, and shape the lenses to fit the frame.

Optometric technicians must know how to select, adjust, and dispense eyewear. They learn business procedures and may be responsible for managing an office. Generally, they work closely with an eye doctor as part of an eye care team. Tasks include testing and measuring visual acuity, color vision, depth perception, field of vision, and pressures within the eye. Optometric technicians assist in various contact lens procedures and also teach contact lens patients to insert, remove, and care for their contact lenses.

ADMISSION REQUIREMENTS

In addition to applying for admission to IUB, you need to complete a separate application to the Optician/Technician Program. There are no prerequisites other than a high school diploma. Many entrants into the

program have already taken college courses and may be able to count them toward the requirements of the Optician/Technician Program. The application process is simple. You can obtain an application from the Office of Student Administration in the School of Optometry or download and print a copy of the application from the School of Optometry web page, www.opt.indiana.edu, under “Admissions.”

First Year Curriculum for Students Accepted into the Program

First Semester (16 credit hours)

TOPT-V 111 Basic Optics (5 cr.)
 TOPT-V 151 Ophthalmic Procedures 1 (4 cr.)
 TOPT-V 174 Office Procedures (4 cr.)
 TOPT-V 201 Anatomy and Physiology of the Eye (3 cr.)

Second Semester (16 credit hours)

TOPT-V 121 Ophthalmic Lens Finishing (4 cr.)
 TOPT-V 131 Ophthalmic Optics (5 cr.)
 TOPT-V 153 Ophthalmic Dispensing (4 cr.)
 TOPT-V 251 Ophthalmic Procedures 2 (3 cr.)

Courses That Can Be Taken Before Admission That Meet Requirements for the Program

ENG-W 131 Elementary Composition (3 cr.)
 HPER-H 160 First Aid and Emergency Care (3 cr.)
 TOPT-V 153 Ophthalmic Dispensing (4 cr.)
 TOPT-V 201 Anatomy and Physiology of the Eye (3 cr.)

School of Public and Environmental Affairs (SPEA)

WWW.INDIANA.EDU/~SPEA

SPEA is among the top three schools of public affairs in the United States and is number one in public affairs among public universities. It is widely known for innovative educational programs, research, and public service.

SPEA provides students with a wide range of services, such as academic advising; career planning and placement; internships in public, nonprofit, and business organizations (including a program in Washington, D.C.); an honors program; and opportunities for overseas study.

Students may choose from six majors in the Bachelor of Science in Public Affairs (B.S.P.A.) degree:

- Environmental Management—Study of environmental issues and their effect on society
- Legal studies—Impact of the law in making and implementing public policy
- Management—Management of teams, information, and financial resources in all types of organizations
- Policy Analysis—Implementation and analysis of public policy
- Public Financial Management—Management of public expenditures and revenue generation
- Public and Nonprofit Management—Management of resources in government and nonprofit organizations

The Bachelor of Science in Public Health (B.S.P.H.) includes one major:

- Health Administration—Management of resources in health care organizations

The Bachelor of Science in Arts Management (B.S.A.M.) includes one major:

- Arts Management—Management of resources in arts, theatre, and music-related organizations

Bachelor of Science in Environmental Science (B.S.E.S.) includes one major, offered jointly with the College of Arts and Sciences:

- Environmental Science—Scientific study of environmental systems and environmental problems

ADMISSION REQUIREMENTS (B.S.P.A. OR B.S.P.H.)

Admission to the School of Public and Environmental Affairs is competitive. Applicants must complete at least 26 credit hours, but no more than 75 credit hours, and must complete an introductory SPEA course (V 160, V 161, E 162, or E 272 for B.S.P.A.; V 160 for B.S.P.H.) with a grade of C or higher. Admissions decisions are based on several factors, including cumulative GPA, grade trends, and SPEA course GPA. Application deadlines are May 1 for fall admission and December 1 for spring admission.

FRESHMAN YEAR COURSE WORK

Public Affairs or Public Health

During the freshman year, students usually complete the following:

- ENGLISH COMPOSITION COURSE(S)
 ENG-W 131 Elementary Composition or alternative (see ud.iub.edu/fs_composition.php).

■ MATHEMATICS COURSE(S)

Choose one option from MATH-M 118, D 116 and D 117, A 118, M 119, or M 211. The policy analysis major requires both M 118 and M 119. The environmental management major recommends M 119 or M 211.

Some students may need preparatory course(s) before taking the required math courses(s). Your advisor will help you choose a class based on your major, SAT/ACT scores, high school grades, and IUB Mathematical Skills Assessment score.

■ COMPUTER COURSE

Choose from SPEA-V 261, BUS-K 201, CSCI-A 110, or CSCI-A 201. Credit given for only ONE.

■ SPEECH COMMUNICATION COURSE

Choose from CMCL-C 121, C 122, C 205, C 223, C 225, C 228, C 229, or THTR-T 120, or BUS-X 104.

■ ADDITIONAL GENERAL EDUCATION COURSES

Public Affairs: One from HIST-H 105, H 106, or POLS-Y 103. Courses from arts and humanities, social and historical studies, and natural sciences.

Public Health: POLS-Y 103 and courses from humanities, social sciences, and natural sciences.

■ MAJOR COURSE(S)

Public Affairs: SPEA-V 160, V 161, E 162, or E 272. Environmental management majors must take SPEA-E 272, not E 162.

Public Health: SPEA-V 160

■ ELECTIVE COURSE(S)

Both the public affairs and public health degree programs allow approximately 24–25 elective credit hours for graduation.

Public Affairs

The B.S. in Public Affairs degree combines courses in finance (how are public roads, schools, and prisons paid for?), management (how can we increase efficiency in public and business organizations?), public law (who makes the rules and regulations, and what is the process?), policy analysis (how are public policy decisions made?), environmental management (what can individuals and society do to protect and improve the environment?), and public and nonprofit management (what does it mean to work for a nonprofit organization?).

Students interested in public affairs choose from the following majors: Management, Public Financial Management, Environmental Management, Legal

Studies, Policy Analysis, or Public and Nonprofit Management.

PUBLIC AFFAIRS COURSE WORK

- **Arts and Humanities:** Two approved courses, minimum 6 credits, are needed for graduation. Choose courses from the following departments only and ask your advisor how SPEA counts the courses that interest you.
 - » African American and African Diaspora Studies
 - » African Studies
 - » American Studies
 - » Central Eurasian Studies
 - » Classical Studies
 - » College of Arts and Sciences Topics COLL-E 103
 - » Communication and Culture
 - » Comparative Literature
 - » English
 - » Fine Arts
 - » Folklore and Ethnomusicology
 - » Foreign Languages and Literature
 - » Gender Studies GNDR-G 101, GNDR-G 225, GNDR-G 290, or GNDR-G 310
 - » History and Philosophy of Science
 - » Musicology and Music History
 - » Philosophy
 - » Religious Studies
 - » Theatre and Drama
- **Social and Historical Studies:** Five courses, minimum 15 credits, are needed for graduation.
 - ECON-E 201 and E 202
 - One of HIST-H 105, H 106, or POLS-Y 103
 - Two additional approved courses. Choose courses from the following departments only and ask your advisor how SPEA counts the courses that interest you.
 - » Anthropology
 - » College of Arts and Sciences Topics COLL-E 104
 - » Criminal Justice
 - » Gender Studies GNDR-G 101, GNDR-G 225, GNDR-G 290, or GNDR-G 310
 - » Geography GEOG-G 110, G 120
 - » History
 - » Journalism
 - » Linguistics
 - » Political Science
 - » Psychological and Brain Sciences (not P 101 or P 155)
 - » Sociology
 - » Telecommunications (not T 206)
- **Natural Sciences:** Two courses, minimum 6 credits, are needed for graduation. Choose from the following only:

- » Astronomy: AST-A 100, A 105, or A 110
- » Biology: BIOL-L 100, L 104, L 111, L 112, L 113, L 350, L 369
- » Chemistry: CHEM-C 101/C 121, C 102/C 122, C 103, C 117, C 118
- » College of Arts and Sciences Topics E 105 (approved sections only)
- » Earth Sciences: GEOG-G 107, G 109, G 185, G 208, GEOL-G 103, G 104, G 105, G 111, G 112, G 114, G 116, G 121, G171
- » Physics: PHYS-P 101, P 110 or P 120, P 201, P 202, P 221, P 222
- » Psychological and Brain Sciences: PSY-P 101 or P 155
- **Public Affairs Core** (five courses)
 - » SPEA-V 160 National and International Policy
 - » SPEA-V 161 Urban Problems and Solutions
 - » SPEA-E 162 Environment and People or E 272 Introduction to Environmental Sciences (environmental management majors are required to take SPEA-E 272, not E 162)
 - » SPEA-V 372 Government Finance and Budgets
 - » SPEA-V 220 Law and Public Affairs
 - » SPEA—Additional credit hours in major; refer to *SPEA Bulletin*.
- » Gender Studies GNDR-G101, GNDR-G 225, GNDR-G 290, or GNDR-G 310
- » History and Philosophy of Science
- » Musicology and Music History
- » Philosophy
- » Religious Studies
- » Theatre and Drama
- **Social Sciences:** Four courses, minimum 12 credits, are needed for graduation.
 - » ECON-E 201, E 202, and POLS-Y 103
- Choose one approved course from Anthropology, Geography (GEOG-G 110), G 120, Journalism, Linguistics, Political Science, Psychology, or Sociology.
- **Natural Sciences:** Two courses, 6–10 credits, are needed for graduation.
 - » Choose from the following only: ANAT-A 215, BIOL-L 100, L 104, L 112, L 302, CHEM-C 101/C 121, C 102/C 122, C 103, C 117, C 118, MSCI-M 131, PHSL-P 215, or GEOL-G 141
- **Public Health Core** (six courses)
 - » SPEA-V 160 National and International Policy
 - » SPEA-H 316 Environmental Health Science
 - » SPEA-H 320 Health Systems Administration
 - » SPEA-V 366 Managing Behavior in Public Organizations
 - » SPEA-H 322 Principles of Epidemiology or HPER-H 311 Human Diseases and Epidemiology
 - » SPEA-H 342 Community Health Education or HPER-C 403 Techniques in Public Health Education
 - » Additional credit hours in major—refer to *SPEA Bulletin*.

Public Health

The B.S. in Public Health degree explores much of the same subject matter as the public affairs program and also enables the student to focus specifically on concepts and skills of management and policy in the health sector. The Bloomington campus offers the health administration major. After consulting with an advisor, freshman students may take some of the following courses:

- **Humanities:** One course, minimum 3 credits, is needed for graduation. Choose from the following only:
 - » African American and African Diaspora Studies
 - » African Studies
 - » American Studies
 - » Central Eurasian Studies
 - » Classical Studies
 - » College of Arts and Sciences Topics COLL-E 103
 - » Communication and Culture
 - » Comparative Literature
 - » English
 - » Fine Arts
 - » Folklore and Ethnomusicology
 - » Foreign Languages and Literature

ARTS MANAGEMENT (B.S.A.M.)

The arts industry is in a period of rapid change, and arts organizations are in need of well-trained managers and leaders. IU Bloomington has a wealth of cultural opportunities for students with an interest in the performing and visual arts. SPEA currently offers a major in arts management and a certificate in arts administration. Both programs are designed for students with strong arts backgrounds who wish to prepare for careers in arts management.

Admission to the arts management major is competitive. Applicants must complete at least 26, but no more than 75 credit hours, take the core course SPEA-A 163, and have a cumulative GPA of 3.0 or higher, with steady or upward grade trends. Application deadlines are May 1 for fall admission

and December 1 for spring admission. Interested students should take the core course SPEA-A 163. Other course work is the same as for the B.S.P.A. degree, except arts and humanities courses must be chosen only from the student's arts requirement specialization. Specialization areas include anthropology, art history, dance, ethnomusicology, folklore, music, studio art, and theatre and drama. Other areas of art interest will be reviewed by the faculty.

B.S. IN ENVIRONMENTAL SCIENCE

The B.S. in Environmental Science (B.S.E.S.) demands a strong background in scientific and mathematical skills to prepare students to comprehend and solve complex environmental problems. Students interested in an applied science program with the potential for significant impact should consider this degree. The degree is jointly awarded by the College of Arts and Sciences and the School of Public and Environmental Affairs, and takes advantage of the strengths of both academic units.

A specific B.S.E.S. area of concentration is usually declared after the first year of study. This decision is made in consultation with the program director. One of the following areas of concentration may be selected:

- Atmospheric science
- Ecosystem science
- General environmental science
- Hydrology and water resources
- Mathematical modeling
- Pollution control technology and remediation
- Surficial processes

While course requirements vary among concentrations, all students should consider taking the following during the first year:

- English composition
- College of Arts and Sciences Topics COLL-E 103
- BIOL-L 111
- CHEM-C 117 (see an advisor to determine the proper course based on chemistry background)
- MATH-M 211 or appropriate preparatory course
- one course in the physical sciences such as GEOG-G 107, GEOL-G 105, or GEOL-G 171

School of Social Work (SWK)

SOCIALWORK.IU.EDU

Indiana University has a long history of providing preparation for social work practice. The first courses in this area were offered in 1911. The organizational status changed many times until 1977, when the School of Social Work was organized to reflect identification with the profession more clearly. Although the school's main location is in Indianapolis, courses or programs are offered on other IU campuses. Graduates move into a broad variety of social service settings, including those concerned with aging, family and child welfare, corrections, mental and physical health, and adjustment in schools. In addition, persons receiving the bachelor's degree who are admitted to the master's program may be given advanced standing in that program. Both the Bachelor of Social Work and the Master of Social Work are accredited by the Council on Social Work Education (CSWE).

The School of Social Work offers a major leading to the Bachelor of Social Work degree (B.S.W.). All four years of the Bachelor of Social Work program are available on the Bloomington campus.

SOCIAL WELFARE ADVOCACY MINOR

For students who would like to minor in social welfare advocacy, the school offers a 15 credit hour minor that includes the following social work courses: SWK-S 100, S 141, S 251, S 352, and any S 300 elective course.

ADMISSION REQUIREMENTS

To be considered for admission, students need to have completed SWK-S 141 with a grade of C or higher and 12 credit hours of course work with a minimum cumulative GPA of 2.5. Meeting the minimum GPA requirement does not guarantee admission into the B.S.W. program. The average GPA of admitted students is substantially higher.

The school requires evidence of characteristics or potential required for competent social work practice as defined in the mission statement of the school. Such evidence may be derived from application materials, letters of reference, pertinent work experience, and performance in SWK-S 141.

Students submit an application by April 1 for priority consideration for the following fall admission.

Applications are available at the School of Social Work office (1127 Atwater Avenue) and online. To increase the cultural diversity in the student body, the school particularly encourages applications from students of color.

FRESHMAN YEAR COURSE WORK

During the freshman year, students who are pursuing a major in the School of Social Work usually complete the following:

■ ENGLISH COMPOSITION COURSE(S)

ENG-W 131 is recommended for the first semester.

If you strongly prefer to take another option, discuss this possibility with your advisor. You will need to ask for permission from the School of Social Work to have a different option fulfill the requirement. For exemption information, see ud.iub.edu/fs_composition.php.

■ MATHEMATICS COURSE(S)

The school recommends that you take a statistics course in your junior or senior year, as statistics is required for admission to most M.S.W. programs. You may want or need to take a mathematics course in preparation for statistics. If so, choose from MATH-M 014, M 025, M 118/S 118, M 119, M 211, or A 118. Most mathematics courses can be used to fulfill a mathematical and physical sciences requirement.

Your advisor will help you finalize your decision based on your high school background, high school test scores and grades, and the Mathematical Skills Assessment.

■ COMPUTER COURSE

CSCI-A 110 or A 201

■ GENERAL EDUCATION COURSES

Choose courses from ANTH-E 105, POLS-Y 103, PSY-P 101, SOC-S 100, HIST-H 106.

Either SOC-S 100 or PSY-P 101 is usually taken first semester. You can also choose from foreign language, arts and humanities (see the course descriptions section of the *University Division Guide* for A&H courses), and mathematics and physical sciences (see your advisor). If you plan to take statistics in the future, you are not required to complete another mathematics and physical sciences course.

■ MAJOR COURSES

SWK-S 100 and S 141. SWK-S 141 is usually taken in the second semester since completion of English composition and either PSY-P 101 or SOC-S 100 is highly recommended before SWK-S 141.

■ ELECTIVES

You may want to consider some 1 or 2 credit electives to help round out your schedule.

LABOR STUDIES PROGRAM

WWW.LABOR.IU.EDU

With 60 years of leadership and experience in the field of labor research and education, IU Labor Studies continues to be a pioneer in innovative teaching and learning. A dynamic program that has changed with the times, Labor Studies now offers online courses to meet the needs of students from all backgrounds.

The field of labor studies uses interdisciplinary social science theory combined with practical skills training to provide a systematic understanding of the history and current status of institutions that influence labor relations. Our faculty represent a variety of specializations (economics, law, political science, sociology, history, and industrial relations) and thus offer diverse methodologies and perspectives on work-related issues. Courses and topics include, for example, the global economy; the struggle for social justice; race, gender, and economics; the history of trade unionism; labor and employment law; changing relationships between family and work; occupational health and safety; and sexual harassment. Labor Studies also offers special 1 credit topics courses on issues such as the representation of organized labor in modern cinema, and noncredit courses in employment rights and practical union training.

The Labor Studies Program within the School of Social Work at Indiana University is a statewide program with faculty on six IU campuses: Bloomington, Fort Wayne, IUPUI, Kokomo, Northwest, and South Bend. Bloomington students can take online courses that originate from any of our six locations. Labor Studies at IU offers both an extension program that provides labor education to unions and a traditional academic program for undergraduates. We offer two degrees, Bachelor of Science and Associate of Science, and a Certificate Program. Students may choose to major or minor in Labor Studies, or complete a certificate program, or just enroll in our courses to learn more about the world.

Recommended courses for first-year students considering a major: LSTU-L 100, L 101, L 110, L 290. For general education course recommendations, see the labor studies advisor in Poplars 633. The program offers a wide selection of online courses and several topics courses on campus each semester. Please visit the program's website: www.labor.iu.edu.

Preprofessional Studies: Prepare for a Career in Law, Medicine, or Other Health Professions

THE HEALTH PROFESSIONS AND PRELAW CENTER
WWW.HPPLC.INDIANA.EDU

If you are thinking of pursuing a career in health or law, we invite you to make use of the services offered by the Health Professions and Prelaw Center (HPPLC). Our mission in HPPLC is to help IUB students become thoughtful, well-prepared, successful applicants to professional programs.

To become a dentist, doctor, lawyer, occupational therapist, optometrist, pharmacist, physical therapist, physician assistant, or veterinarian, you must ultimately earn a graduate degree. Preparation for admission to these post-undergraduate programs can be completed at IUB. Note that most *any undergraduate major is acceptable preparation*. As you explore majors, consider ones that you'll enjoy and in which you can excel, and perhaps majors that might serve as a basis for employment or further study should you choose not to pursue a professional degree. Consult with your academic advisor or a HPPLC preprofessional advisor for help with exploring majors.

Bachelor and associate degree health professions programs are offered through the IU School of Medicine, the IUPUI School of Informatics Health Information Administration Program, and the IU School of Dentistry Dental Hygiene Program. Students can complete their prerequisite courses and other admission requirements for these programs at IUB, but then must apply for admission to the professional programs themselves at other IU campuses. Please also read the important information at [Undergraduate Degrees and Certificates Completed at Other IU Campuses](#). (For information on the IUB Nursing or Optician/ Technician programs, see those sections of the UD Guide.)

Because *both graduate and undergraduate professional programs have selective admissions*, you will need to prepare systematically at IUB in order to become competitive for admission. HPPLC advisors will help you in this endeavor.

WHERE TO GET HELP

If you are interested in preparing for one of these careers, we encourage you to schedule an individual advising appointment with an advisor in the Health

Professions and Prelaw Center *at some point in the fall semester* by calling 812-855-1873.

For more information, visit HPPLC's award-winning website at www.hpplc.indiana.edu. Once there, click "Email Lists" to sign up for announcements pertinent to your area of preprofessional study. The center also maintains a Recommendation Service, through which you may compile and disseminate letters of recommendation. You may contact HPPLC at (812) 855-1873 or hpplc@indiana.edu; or visit our office in [Maxwell Hall 010](#). (Sorry, we cannot schedule appointments over email; please call or stop by.)

Specific course options and other admission requirements for the various programs are listed below according to the type of degree they require (i.e., graduate, undergraduate). For specific requirements for other schools nationwide, consult a HPPLC advisor.

PREPROFESSIONAL STUDIES LEADING TO GRADUATE DEGREES

Predental Study

This section provides information for planning for admission to dental school, beginning with your first semester in college. When you meet with an academic advisor during New Student Orientation, please make sure you mention your intention to follow a predental preparatory program. You will be subscribed to the HPPLC mailing list and receive invitations to participate in [predental events](#), including visits to campus, by the director of admissions of the Indiana University School of Dentistry.

DESCRIPTION OF THE PROFESSION

Dentists diagnose, prevent, and treat problems with teeth or mouth tissue. They remove decay, fill cavities, examine X-rays, place protective plastic sealants on children's teeth, straighten teeth, and repair fractured teeth. They provide instruction on diet, brushing, flossing, the use of fluorides, and other aspects of dental care.

CHOOSING YOUR DEGREE AND MAJOR

Many predental students ask, "What is the best major if I want to go to dental school?" There is no "best major" for dental school. IUB does not offer a "predental major." You can select any [major](#) IUB offers and combine it with the courses required for admission to dental school. You can select either a science or non-science major. (For more advice concerning the decision on a major click [here](#)).

There need *not* be an obvious connection between your major and dentistry. Dental schools do not select

students on the basis of the majors they have pursued. Instead they look at an applicant's skills and abilities as reflected in the application. Dental schools look for students with a very strong foundation in the sciences but also other types of abilities: good analytical, problem-solving, and communication skills. They also look for students with excellent fine motor and [manual dexterity](#) skills. You have to have strong abilities in the sciences, but you don't have to major in a science field. Good dentists need good problem-solving skills and good communication skills. You will need to develop a strong foundation in the sciences. Your pre dental course work will help you do this. You will also need to build excellent communication and analytical skills. Course work in the humanities and social sciences will help you in these areas, and most degrees will require you to complete a certain number of such courses to meet the distribution requirements for your particular degree.

BACHELOR OF ARTS VERSUS BACHELOR OF SCIENCE

In addition, many students ask, "Which is better for dental school, a Bachelor of Arts or a Bachelor of Science degree?" Dental schools do not have a preference for either a B.A. or a B.S., although there are differences in these degrees. Generally, with a B.S. you will complete more course work up to a more advanced level in your major field, whereas with a B.A. you will be required to complete fewer courses in your major, which leaves more room to take a variety of course work in other fields.

DENTAL SCHOOL ADMISSION REQUIREMENTS

Admission to dental school is very competitive. While you can select any major or degree, you must complete some very rigorous courses in the sciences to be admitted to dental school. The standard requirements for admission to most dental schools include courses in biology, general/inorganic chemistry, organic chemistry, and physics, including lecture and lab in each area (for more specific information on dental school admission requirements, please consult [this page](#) on the HPPLC website). Your course work in biology, general/inorganic chemistry, and organic chemistry will provide important preparation for the (DAT) exam. If you are prepared and have completed course work in these areas, it is recommended that you study and take the DAT during the summer after your sophomore year.

PLANNING YOUR FALL COURSE OPTIONS

For your fall semester, you should begin with completing at least one pre dental science course. You will also need to complete other course work for your particular undergraduate degree and major, so you should make sure to consult the other sections of this *eGuide* on how to plan your fall course schedule for any of the majors you are considering.

Regarding your pre dental course work, we recommend pre dental students begin taking chemistry course work as early as possible. If you are prepared, you should enroll in chemistry during your first semester in college, or the second semester at the latest. The first chemistry course you will take to fulfill dental school requirements is CHEM-C 117 Principles of Chemistry and Biochemistry I.

The DAT exam covers biology, general chemistry, and organic chemistry, but it does not cover physics. Therefore, in planning your course sequencing, it is often best to prioritize biology and chemistry course work, and leave physics for the junior or senior year.

If for some reason you do not enroll in chemistry your first semester, we recommend you enroll in a biology pre dental course (options would be BIOL-L 111 or BIOL-L 112, if you have the appropriate chemistry background already). If you are an extremely strong student in the sciences, you could consider enrolling in both chemistry and biology course work for your first semester. However, be aware that many students are surprised by how challenging it can be to take more than one required science course their first college semester. Before enrolling in more than one science course for the fall, be sure to discuss your science background with your academic advisor.

During your first semester, you will also need to enroll in other courses besides your pre dental science course work. Other courses you may consider taking your first semester may include math, English, foreign language, and courses for the major you are considering. In addition, you may wish to include courses that fulfill distribution requirements for your particular degree. Depending on the major/school, some of these courses may be classified as Arts and Humanities (A&H) and Social and Historical (S&H) courses. These courses also will be important in helping you build the communication and analytical skills dental schools desire in applicants.

You may also consider enrolling in course work that would help you develop [manual dexterity](#) skills you will need for success in dental school and a career in dentistry. Such course work would include courses in three-dimensional fine arts or instrumental music.

YOUR COURSE LOAD

A normal course load for most pre professional students is 14–16 total credit hours. That means you'll probably be enrolling in from four to six classes. In your individual academic advising session during New Student Orientation, your academic advisor will help you double-check your options, choose appropriate courses, and plan an appropriate course load in which you'll be able to be successful.

OTHER ACTIVITIES FOR PREDENTAL STUDENTS DURING THE FIRST YEAR OF COLLEGE

For the first year of college, other activities you may consider include gaining [experience in a dental environment](#) through shadowing dentists or volunteering, as well as other [community service](#) activities. You should also attend [Health Professions and Prelaw Center events](#).

However, you should be aware that most pre dental students find their first semester taking college-level science course work surprisingly challenging, so you should not feel the pressure to overload yourself with extracurricular activities immediately. You may wish to set up job shadowing with dentists for the period when you will be home for winter break between the fall and spring semesters, so you can further explore your interest in dentistry and confirm whether it is the path you want to pursue for your career.

Many pre dental students find the science course work challenging. If you know that you want to pursue a career in health care, but decide you are unsure about the career of a dentist, there are many other fulfilling [health professions](#) you could pursue.

Please consult the [Health Professions and Prelaw Center website](#) for more information on preparing for dental school and services for pre dental students.

Prelaw Study

This section provides information for planning for admission to law school, beginning with your first semester in college. When you meet with an academic advisor during New Student Orientation, please make sure you mention your intention to follow a prelaw preparatory program. You will be subscribed to the HPPLC mailing list and receive invitations to participate in [events](#) of interest to you.

At IUB, “prelaw” is not a major, program, or a series of courses. This section provides basic information on what you’ll need to keep in mind as a prelaw student when planning your fall semester.

DESCRIPTION OF THE PROFESSION

Lawyers can serve as both advocates and advisors. As advocates, they represent their clients, often in adversarial settings (although going to trial does not happen nearly as often as is portrayed in the media). As advisors, attorneys counsel their clients as to their legal rights and obligations. Most lawyers work for private law firms that might either specialize in a particular field or handle various kinds of legal problems.

Some work for larger law firms, corporations, and government agencies. Some lawyers become district attorneys or judges, while others enter politics. Many law school graduates obtain employment in fields that do not involve the practice of law. For more information, see the HPPLC web page [“Making the Decision to Attend Law School.”](#)

CHOOSING YOUR DEGREE AND MAJOR

As far as law schools or IUB is concerned, there is no rush to choose a specific major, or the particular IUB school or college from which you will graduate. It is perfectly fine to be exploratory about your major and/or degree at the start of your undergraduate studies. You’ll be able to work with your academic advisor in the fall to discover a major and degree that are a good fit for you. It is also acceptable to change your mind about your intended major or degree after you begin your studies. For example, you are not committed to the major, if any, that you listed on your application to IUB.

There need *not* be an obvious connection between your major and law. In fact, having a relatively unusual major or degree can, if anything, be a slight advantage. Law schools are looking for a diverse population of students, and diversity of majors and degrees is one consideration. They want interesting class discussions from individuals with different academic perspectives and backgrounds. In a typical year, applicants with degrees from every college or school at IUB, and from more than 50 majors, successfully apply to law schools around the country. Thus, virtually any academic program and any degree from IUB can, and often does, ultimately lead to law school.

What is the “best” major for someone considering law school? In general, the “best” major is one that you enjoy, and one in which you can excel. (See the HPPLC publication [Selecting a Major for Law School](#).) We also recommend you choose a major that will give you options for further study or employment should you change your mind about law school or decide to work for a year or more after graduation and before you apply. It’s really up to you.

LAW SCHOOL ADMISSION REQUIREMENTS

In general, the only formal requirement for admission to law school is that you obtain a bachelor’s degree (either a B.A. or a B.S.) prior to beginning your legal studies.

No law school in the country has even one prerequisite course you must take as an undergraduate, and there is no preferred degree or major. In fact, surprising as it may seem, law schools do not even recommend you go out of your way to take “law” courses as an undergrad.

Instead, they usually suggest that you take courses that will not be available to you in law school. If you are interested in a course with the word “law” in the title, that’s absolutely fine and to be expected—don’t hesitate to take one or even several during your undergraduate career! But such courses are not at all required, and generally they will not enhance your chances for admission nor make law school itself any easier.

Admission to law school is based first and foremost upon your Law School Admission Test (LSAT) score and your cumulative GPA—not the major *per se*.

Admission Is Competitive

Admission to law school is very competitive. Success in any graduate-level program requires you to become as professionalized as possible as an undergraduate. We strongly urge you to consult and adopt the [professional development model](#) on the HPPLC website.

PLANNING YOUR FALL COURSE OPTIONS

The American Bar Association states: “The ABA does not recommend any particular group of undergraduate majors, or courses, that should be taken by those wishing to prepare for legal education; developing such a list is neither possible nor desirable. Taking difficult courses from demanding instructors is the best generic preparation.” (For similar advice from top law schools and the Law School Admission Council, see HPPLC’s publication [Expert Advice on Undergraduate Preparation for Law School](#).)

Therefore, you should follow the instructions for your intended degree and major, or for exploration as outlined in this *eGuide*. Keep in mind that law schools recommend you take a wide variety of courses from different subject areas. When you list courses on your APW, we suggest you go *beyond* the stated requirements or what you may have been told might “look good” to a law school. Think “outside the box,” and include any course that genuinely interests you or whose subject sounds intriguing.

Courses in the humanities, social sciences, and hard sciences can all provide skills law schools are looking for in an applicant: analytical, problem-solving, research, writing, and communication skills. Most degrees at IUB require you to complete a variety of such courses to meet the distribution requirements. Law schools also like well-rounded individuals, so take some courses out of intellectual curiosity or for fun as well.

If you’d like some generic course suggestions, take a look at the HPPLC publications [Questions and Answers for Freshmen and Sophomores](#) and [The Prelaw Curriculum](#).

YOUR COURSE LOAD

A normal course load for most preprofessional students, including those interested in law school, is 14–16 total credit hours. That means you’ll probably be enrolling in four to six classes. In your individual academic advising session during New Student Orientation, your academic advisor will help you double-check your options, choose appropriate courses, and plan an appropriate course load in which you’ll be able to be successful.

OTHER ACTIVITIES FOR PRELAW STUDENTS DURING THE FIRST YEAR OF COLLEGE

Internships, volunteering, employment, extracurricular activities, job shadowing, and any other experiences you have in the “real world” will form a part of the overall picture you present to law schools when you apply for admission. While such activities may be useful and enjoyable activities for you personally as well as professionally, none are specifically required for admission, and it is not necessary that such activities be “law-related.” For information on the role such “extras” play in law school admission decisions, see the HPPLC publication [What Law Schools Look For in an Applicant](#).

You should also be aware that most prelaw students find their first semester taking college-level courses surprisingly challenging, so you should not feel any pressure to overload yourself with extracurricular activities immediately. You’ll have plenty of time for such activities later. Take a look at the [prelaw section](#) of HPPLC’s award-winning website for a comprehensive list of topics concerning preparation.

Premedical Study

If you are interested in going to medical school, this section provides some information on what you should consider in planning, beginning with your first semester in college. When you meet with an academic advisor during New Student Orientation, please make sure to mention that you intend to follow a premed preparatory program. You will be subscribed to the HPPLC mailing list and receive invitations to participate in [premed events](#), including the Premed Orientation Meeting in the fall.

DESCRIPTION OF THE PROFESSION

Physicians and surgeons serve a fundamental role in our society and have an effect upon all our lives. They diagnose illnesses and prescribe and administer treatment for people suffering from injury or disease. Physicians examine patients, obtain medical histories, and order, perform, and interpret diagnostic tests. They counsel patients on diet, hygiene, and preventive health care.

CHOOSING YOUR DEGREE AND MAJOR

One of the first questions many incoming premed students ask is, “What is the best major if I want to go to medical school?” There is no “best major” for medical school. IUB does not offer a “premed major,” and medical schools do not have a keen interest in admitting students who have completed a program called a “premed major.” Instead, they admit a variety of students who have built strong intellectual skills through a variety of undergraduate majors, whether in the sciences or nonsciences. You can select any [major](#) IUB offers and combine it with the courses required for admission to medical school. You can select either a science or nonscience major. (For more advice concerning the decision on a major click [here](#)).

There need *not* be an obvious connection between your major and medicine. Medical schools do not select students on the basis of the majors they have pursued. Instead they look at an applicant’s skills and abilities as reflected in the application.

So, what do medical schools want in an applicant? Medical schools look for students with a very strong foundation in the sciences but also other types of abilities: good analytical, problem-solving, and communication skills. You have to have strong abilities in the sciences, but you don’t have to major in a science field. Good physicians need good problem-solving skills and good communication skills.

How can you build these skills? You will need to develop a strong foundation in the sciences. Your premed course work will help you do this. You will also need to build excellent communication and analytical skills. Course work in the humanities and social sciences will help you in these areas, and most degrees will require that you complete a certain number of such courses to meet the distribution requirements for your particular degree.

BACHELOR OF ARTS VERSUS BACHELOR OF SCIENCE

In addition, many students ask, “Which is better for medical school, a Bachelor of Arts or a Bachelor of Science degree?” Medical schools do not have a preference for either a B.A. or a B.S., although there are differences in these degrees. Generally with a B.S. you will complete more course work up to a more advanced level in your major field, whereas with a B.A. you will be required to complete fewer courses in your major, which leaves more room to take a variety of course work in other fields. A Bachelor of Arts degree could provide advantages in giving your education greater breadth, something medical schools find appealing in the background of applicants. On the other hand, if

you are very interested in pursuing a career in medical research or having a greater depth in the life sciences, you may wish to pursue a Bachelor of Science degree.

MEDICAL SCHOOL ADMISSION REQUIREMENTS

Admission to medical school is very competitive. While you can select any major or degree, you must complete some very rigorous courses in the sciences to be admitted to medical school. The standard requirements for admission to most medical schools include one year of biology, one year of general/inorganic chemistry, one year of organic chemistry, and one year of physics, including lecture and lab in each area (for more specific information on medical school admission requirements, please consult [this page](#) on the HPPLC website). These courses will provide important preparation for the [MCAT](#) exam. If you would like to go straight to medical school after graduation, you should plan to complete all premed required course work by the spring of your junior year so you will be prepared to take the MCAT and apply early in the summer between your junior and senior year.

PLANNING YOUR FALL COURSE OPTIONS

For your fall semester, you should begin with completing at least one premed course, but you will also need to complete other course work for your particular undergraduate degree and major, so you should make sure to consult the other sections of this *eGuide* on how to plan your fall course schedule for any of the majors you are considering.

Regarding your premed course work, we recommend all premed students begin taking chemistry course work as early as possible, so if you are prepared you should enroll in chemistry during your first semester in college, or the second semester at the latest. The first chemistry course you will take to fulfill medical school requirements is CHEM-C 117 Principles of Chemistry and Biochemistry I. You should take the Chemistry Placement Exam online before coming to New Student Orientation.

If for some reason you do not enroll in chemistry your first semester, we recommend you enroll in a biology premed course (options would be BIOL-L 111 or BIOL-L 112, if you have the appropriate chemistry background already). If you are an extremely strong student in the sciences, you could consider enrolling in both chemistry and biology course work for your first semester. However, be aware that many students are surprised by how challenging it can be to take more than one required science course their first college semester. Before enrolling in more than one science course for the

fall, be sure to discuss your science background with your academic advisor.

During your first semester at IUB you will also need to enroll in other courses besides your premed course work. Other courses you may consider taking your first semester may include math, English, foreign language, and courses for the major you are considering. In addition, you may wish to include courses that fulfill distribution requirements for your particular degree. Depending on the major/school, some of these courses may be classified as Arts and Humanities (A & H) and Social and Historical (S & H) courses. These courses will also be important in helping you build the communication and analytical skills medical schools desire in applicants.

YOUR COURSE LOAD

A normal course load for most preprofessional students is 14–16 total credit hours. That means you'll probably be enrolling in four to six classes. In your individual academic advising session during New Student Orientation, your academic advisor will help you double-check your options, choose appropriate courses, and plan an appropriate course load in which you'll be able to be successful.

OTHER ACTIVITIES FOR PREMED STUDENTS DURING THE FIRST YEAR OF COLLEGE

For the first year of college, other activities you may consider include gaining [clinical experience](#) through shadowing physicians and volunteering in a medical environment, as well as other [community service](#) activities. You should also attend [Health Professions and Prelaw Center events](#).

However, you should be aware that most premed students find their first semester taking college-level science course work surprisingly challenging, so you should not feel the pressure to overload yourself with extracurricular activities immediately. You may wish to set up job shadowing with physicians for the period when you will be home for winter break between the fall and spring semesters, so you can explore further your interest in medicine and confirm whether it is the path you want to pursue for your career.

Many premed students find the science course work challenging, so if you know you want to pursue a career in health care, but decide you are unsure about the career of a physician, there are many other fulfilling [health professions](#) you could pursue.

Please consult the [Health Professions and Prelaw Center website](#) for more information on preparing for medical school and services for premed students.

Pre-Occupational Therapy Study

This section provides information for planning for admission to occupational therapy programs, beginning with your first semester in college. When you meet with an academic advisor during New Student Orientation, please make sure you mention your intention to follow a pre-occupational therapy preparatory program. You will be subscribed to the HPPLC mailing list and receive invitations to participate in [events](#) of interest to you.

DESCRIPTION OF THE PROFESSION

Occupational therapists help people with physical, cognitive, or psychosocial challenges maximize their ability to participate in life independently. With occupational therapy (OT), children and adults facing such challenges can improve skills that help them perform daily tasks at home, school, work, and play. OT does not simply treat medical conditions. It helps people stay engaged in activities that give them meaning and satisfaction. Critical thinking and problem-solving skills, patience, empathy, strong communication and social skills, and the ability to work with a team of care givers in a variety of settings are skills important to this profession, as is the ability to work closely with people from a variety of backgrounds. Occupational therapists are service-oriented “people persons.”

THE DEGREE PATH

Everyone now entering the field to practice as a licensed occupational therapist must earn a graduate degree from an accredited occupational therapy training program. The Indiana University School of Health and Rehabilitation Sciences (SHRS) offers a master's degree in OT on IU's Indianapolis campus (IUPUI). While IUB does not offer an OT program, hundreds of pre-OT students complete their undergraduate degree and admission requirements here, and then apply to OT graduate programs like the one at IUPUI.

To be eligible to apply to the IU OT program, you must successfully complete certain prerequisite courses and other admission requirements. Before beginning the master's degree itself, you must successfully complete a bachelor's degree in a major of your choice. (Your prerequisite courses will be spread out across your undergraduate semesters.)

ADMISSION IS COMPETITIVE

Admission to the IU OT program is very competitive (as is admission to most OT programs). Statistics show that students who invest 30 hours outside of class on academics (e.g., studying, reading, getting help when needed) for every 15 hours spent in class are more successful than students who invest less time. *If you choose to ignore this advice, be aware that you are making a*

decision to be less competitive for admission to programs for which you might otherwise be competitive!

Success in any graduate-level program requires you to become as professionalized as possible as an undergraduate. We strongly urge you to consult and adopt the [professional development model](#) on the HPPLC website.

REQUIRED JOB SHADOWING

Shadowing (or “clinical observation”) is a requirement for admission to most OT programs. Shadowing can also help you decide whether or not a career in occupational therapy is the best choice for you, or whether you need to explore other fields. Furthermore, extensive observation in a variety of settings can help you become a more competitive applicant to OT programs.

Job shadowing experiences allow you to see the day-to-day responsibilities a given profession might involve within a given setting. HPPLC urges you to *begin shadowing now*, and to continue doing so throughout your undergraduate years if you do decide OT is the path for you.

HINT: We recommend you log your shadowing hours and take some notes during your experiences.

PLANNING YOUR FALL COURSE OPTIONS

Choosing Your Degree and Major

Almost any degree and major works fine for pre-OT students, and most OT programs have no preference as to what major and degree you earn! In addition, there does *not* need to be an obvious connection between your major and occupational therapy (applicants from 16 different majors were admitted to the IU OT program last year). Our recommendation is that you simply choose a major (and perhaps a minor or two) that interests you. It is also perfectly fine to be exploratory in the beginning, and to work with your academic advisor throughout the year to discover a major that is a good fit for you. (Consult University Division resources for information about specific majors or for information about [exploring majors](#).)

You can learn more about additional admission requirements later during the year. (Refer to the [Health Professions and Prelaw Center Events Calendar](#) for announcements about OT group advising sessions and other OT events held throughout the year. Also be sure to tell the academic advisor you meet during New Student Orientation you are interested in OT so you will be put on the HPPLC pre-OT email list.)

For now, though, it’s important that you simply focus on doing thorough planning for your Orientation advising session and registration. *Please carefully consider the options below and follow the directions closely.*

Your Course Load

A normal course load for preprofessional students is 14–16 credit hours, depending on the mix of classes. For the upcoming semester, if course availability permits, try to take 6–11 credits from the list below, and then fill in the rest of your schedule with courses pertaining to your potential major or exploratory interests. In your individual academic advising session during New Student Orientation, your academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

Occupational Therapy Prerequisites:

- **Introductory Psychology**
PSY-P 101 and PSY-P 102 or PSY-P 155. Either path fulfills prerequisite requirements for PSY-P 324, which is a required OT prerequisite. (P 155 is an intensive course more appropriate for psychology majors than for most other students.)
- **Human Lifespan Development**
HPER-F 150 or EDUC-P 314 are the best options.
- **Medical Terminology**
CLAS-C 209.
- **Human Anatomy**
ANAT-A 215. A 215 has limited seating and may not be available. If so, you can simply take it later. (We urge you to follow the anatomy study tips at <http://hpplc.indiana.edu/ohp/AnatomyStudyTips.shtml>.)
- **Human Physiology**
PHSL-P 215. Note that PHSL-P 215 is most appropriate if you have previously taken some anatomy and/or physiology in high school or college. P 215 has limited seating and may not be available. If so, you can simply take it later.
- **Statistics**
Multiple course options. Most freshmen are not ready to take college-level statistics (which tends to be very different from high school stats). Consult with your academic advisor if you are considering enrolling in statistics during your freshman year.
- **REQUIRED additional courses**
Follow the directions for the APW for listing additional course options. The additional courses you list on the APW should *not* include the above required courses!

- **Optional Humanities and Social Sciences**

The School of Health and Rehabilitation Sciences suggests you take additional humanities and social science courses (for example, professional writing, ethics, sociology, anthropology, history, philosophy, literature, religion, art, music, minority studies, folklore, foreign language/ culture, classical studies, psychology—any A & H or S & H that interests you.)

- **Additional Planning Notes**

- » Math/science courses must be major-level courses to count for OT admission. If placement exams recommend or require you take a prep course or prerequisite prior to a required course, don't worry: with careful planning (and consultation with your academic advisor), you can still complete all prerequisite courses in a timely manner.
- » Placement Credit and Exemptions: Some OT programs may not accept Advanced Placement (AP credit), credit-by-exam, or exemption from degree requirements in place of admission requirements, or may only accept such credit under specific circumstances. If you have placement credit and/or exemptions, you will eventually need to check with programs to confirm their policies.
- » If you have Advanced Placement (AP) credit or previous college credit for PSY-P 101, then you might consider taking PSY-P 102 if it is available.

REQUIRED ADMISSION GPA VERSUS COMPETITIVE GPA

Note that while a minimum Cumulative Grade Point Average (CGPA) of 3.0 is required to apply to the IU OT program, a considerably higher GPA is likely necessary to be competitive for admission. Likewise, while a minimum prerequisite GPA of 3.0 is also required to apply, a considerably higher prerequisite GPA is likely necessary to be competitive for admission.

OTHER ACTIVITIES FOR PRE-OCCUPATIONAL THERAPY STUDENTS DURING THE FIRST YEAR OF COLLEGE

For the first year of college, other activities you may consider include gaining experience through shadowing occupational therapists or volunteering, as well as other community service activities. You should also attend [Health Professions and Prelaw Center events](#).

Many pre-occupational therapy students find the science course work challenging. If you know that you want to pursue a career in health care, but decide you

are unsure about occupational therapy, there are many other fulfilling [health professions](#) you could pursue.

Please consult the [Health Professions and Prelaw Center website](#) for more information on preparing for occupational therapy school and services for occupational therapy students.

Preoptometry Study

If you are considering a career in optometry, please read this section for information to help you plan, beginning with your first semester in college. When you meet with an academic advisor during summer orientation, please make sure to tell the academic advisor that you intend to follow a preoptometry program. You will be subscribed to the HPPLC mailing list and receive invitations to participate in [events](#) of interest to preoptometry students.

DESCRIPTION OF THE PROFESSION

Optometrists examine, diagnose, treat, and manage diseases, injuries, and disorders of the visual system, the eye, and associated structures as well as identify related systemic conditions affecting the eye.

CHOOSING A DEGREE AND MAJOR

Preoptometry students may select any major and degree to combine with the courses required for admission to optometry school. Preoptometry students should select a major that interests them, allows them to build strong intellectual skills, and one that could provide opportunities for graduate work or employment if they choose not to pursue a career in optometry. There need not be an obvious connection between your major and optometry. You may wish to consider a major that could lead to other career paths later on, or an alternate [health profession](#).

BACHELOR OF ARTS VERSUS BACHELOR OF SCIENCE

In addition, many students ask, "Which is better for optometry school, a bachelor of arts or a bachelor of science degree?" Optometry schools do not have a preference for either a B.A. or a B.S., although there are differences in these degrees. Generally with a B.S. you will complete more course work up to a more advanced level in your major field, whereas with a B.A. you will be required to complete fewer courses in your major, which leaves more room to take a variety of course work in other fields.

OPTOMETRY SCHOOL ADMISSION REQUIREMENTS

The course requirements for admission to optometry programs vary from school to school, but will always include some very rigorous core courses in the sciences. The common requirements for admission to optometry schools include course work in general/inorganic chemistry, organic chemistry, biology, microbiology, physics, math/calculus, and statistics. Please click on this link for a plan of study for IU Bloomington students who plan to apply for admission to the Indiana University School of Optometry: <http://www.hpplc.indiana.edu/pdf/ohp/Preoptometry.pdf>. We recommend that students who are Indiana residents follow this plan of preparation, and then consider including additional course work that would help them meet the admission requirements for other optometry schools. Students should consult the [Association of Schools and Colleges of Optometry Admissions Requirements Handbook](#) and meet with a HPPLC advisor regarding the requirements for admission to other optometry schools.

PLANNING YOUR FALL COURSE OPTIONS

For your fall semester, you should begin with completing at least one preoptometry science course, but you also should include other course work for the particular undergraduate degree and major you plan to pursue at IUB. Make sure to consult the other sections of this *eGuide* on how to plan your fall course schedule for any of the majors you are considering.

Regarding your preoptometry course work, we recommend all preoptometry students begin taking chemistry course work as early as possible. If you are prepared you should enroll in chemistry during your first semester in college, or the second semester at the latest. The first chemistry course you will take to fulfill optometry school requirements is CHEM-C 117 Principles of Chemistry and Biochemistry I. You should take the Chemistry Placement Exam online before coming to summer orientation.

If for some reason you do not enroll in chemistry your first semester, we recommend that you enroll in a biology course that would fulfill optometry requirements such as BIOL-L 112 (if you have the appropriate chemistry background already) If you are an extremely strong student in the sciences you could consider enrolling in both chemistry and biology course work for your first semester. However, be aware that many students are surprised by how challenging it can be to take more than one required science course their first college semester. Before enrolling in more than one science course for the fall, be sure to discuss your science background with your academic advisor.

Other courses you may consider taking your first semester include foreign language, math (MATH-M 211 or 119), English Composition (ENG-W 131), and PSY-P 101.

During your first semester at IUB you will also need to enroll in other courses besides your preoptometry course work. Other courses you may consider include courses for the major you are considering. In addition, you may wish to include courses that fulfill distribution requirements for your particular degree. Depending on the major/school, some of these courses may be classified as Arts and Humanities (A & H) and Social and Historical (S & H) courses. These courses will also be important in helping you build the communication and analytical skills that optometry schools desire in applicants.

YOUR COURSE LOAD

A normal course load for most preprofessional students is 14–16 total credit hours. That means you'll probably be enrolling in four to six classes. In your individual academic advising session during New Student Orientation, your academic advisor will help you double-check your options, choose appropriate courses, and plan an appropriate course load in which you'll be able to be successful.

OTHER ACTIVITIES FOR PREOPTOMETRY STUDENTS DURING THE FIRST YEAR OF COLLEGE

For the first year of college, other activities you may consider include gaining [clinical and community service experience](#). You should also attend [Health Professions and Prelaw Center events](#), including the annual Health Programs Fair, where you can meet with admissions representatives from optometry schools.

However, you should be aware that most preoptometry students find their first semester taking college-level science course work surprisingly challenging, so you should not overload yourself with extracurricular activities immediately. You may wish to set up job shadowing with optometrists for the period when you will be home for winter break between the fall and spring semesters, so that you can explore further your interest in optometry and confirm whether it is the path that you want to pursue for your career.

Many preoptometry students find the science course work challenging. If you know that you want to pursue a career in health care, but decide that you are unsure about the career of optometrist, there are many other fulfilling [health professions](#) that you could pursue.

Please consult the [Health Professions and Prelaw Center website](#) for more information on preparing for optometry school and services for preoptometry students.

Prepharmacy Study

If you are considering a career in pharmacy, please read this section for information to help you plan, beginning with your first semester in college. When you meet with an academic advisor during New Student Orientation, please make sure to mention your intention to follow a prepharmacy program. You will be subscribed to the HPPLC mailing list and receive invitations to participate in [events](#) of interest to prepharmacy students.

There is no prepharmacy major or Doctor of Pharmacy program at Indiana University. However, students may complete all the requirements for admission to pharmacy schools on the IUB campus. Because competition for admission to pharmacy programs is so keen, we recommend that students at IUB plan to complete an undergraduate degree in a major that interests them before entering pharmacy school.

DESCRIPTION OF THE PROFESSION

Pharmacists dispense drugs prescribed by physicians and other health practitioners and provide information to patients about medications and their use. They advise physicians and other health practitioners on the selection, dosages, interactions, and side effects of medications. Pharmacists also monitor the health and progress of patients in response to drug therapy to ensure safe and effective use of medication.

CHOOSING YOUR DEGREE AND MAJOR

Prepharmacy students may select any major and degree to combine with the courses required for admission to pharmacy school. There need not be an obvious connection between your major and pharmacy. As a prepharmacy student, you should select a major that interests you, allows you to build strong intellectual skills, and could provide opportunities for graduate work or employment if you choose not to pursue a career in pharmacy. Admission to pharmacy schools is highly competitive, so you may wish to select a major that could lead to other career paths later on, or an alternate [health profession](#).

PHARMACY SCHOOL ADMISSION REQUIREMENTS

The course requirements for admission to pharmacy programs vary significantly from school to school, but will always include some very rigorous core courses in the sciences. The standard requirements for admission to pharmacy schools include course work in general/

inorganic chemistry, organic chemistry, biology, physics, and math/calculus. Requirements for the Doctor of Pharmacy program at Purdue University include specific courses in chemistry, math, English, anatomy, physiology, biology, physics, and economics. Please click on this link for a plan of study for IUB students who plan to apply for admission to the Purdue University School of Pharmacy and Pharmaceutical Sciences Doctor of Pharmacy program: <http://www.hpplc.indiana.edu/pdf/ohp/Prepharmacy%20Program.pdf>. We recommend students who are Indiana residents follow this plan of preparation, and then consider including additional course work that would meet the admission requirements for other pharmacy schools. Students should consult the publication Pharmacy School Admission Requirements (a copy is available in the HPPLC office) and meet with a HPPLC advisor regarding the requirements for admission to other pharmacy schools.

PLANNING YOUR FALL COURSE OPTIONS

For your fall semester, you should begin with completing at least one prepharmacy science course. You also should include other course work for the particular undergraduate degree and major you plan to pursue at IUB, so you should make sure to consult the other sections of this *eGuide* on how to plan your fall course schedule for any of the majors you are considering.

Regarding your prepharmacy course work, we recommend all prepharmacy students begin taking chemistry course work as early as possible, so if you are prepared you should enroll in chemistry during your first semester in college, or the second semester at the latest. The first chemistry course you will take to fulfill pharmacy school requirements is CHEM-C 117 Principles of Chemistry and Biochemistry I. You should take the Chemistry Placement Exam online before coming to New Student Orientation.

If for some reason you do not enroll in chemistry your first semester, we recommend you enroll in a biology course that would fulfill pharmacy requirements (options would be BIOL-L 111 or BIOL-L 112, if you have the appropriate chemistry background already). If you are an extremely strong student in the sciences, you could consider enrolling in both chemistry and biology course work for your first semester. However, be aware that many students are surprised by how challenging it can be to take more than one required science course their first college semester. Before enrolling in more than one science course for the fall, be sure to discuss your science background with your academic advisor.

Other courses you may consider taking your first semester include math (MATH-M 119 and 120), English Composition (ENG-W 131), and ECON-E 201.

During your first semester at IUB you will also need to enroll in other courses besides your prepharmacy course work. Other courses you may consider include foreign language and courses for the major you are considering. In addition, you may wish to include courses that fulfill distribution requirements for your particular degree. Depending on the major/school, some of these courses may be classified as Arts and Humanities (A & H) and Social and Historical (S & H) courses. These courses will also be important in helping you build the communication and analytical skills that pharmacy schools desire in applicants.

YOUR COURSE LOAD

A normal course load for most preprofessional students is 14-16 total credit hours. That means you'll probably be enrolling in four to six classes. In your individual academic advising session during New Student Orientation, your academic advisor will help you double-check your options, choose appropriate courses, and plan an appropriate course load in which you'll be able to be successful.

OTHER ACTIVITIES FOR PREPHARMACY STUDENTS DURING THE FIRST YEAR OF COLLEGE

For the first year of college, other activities you may consider include gaining [clinical and community service experience](#). You should also attend [Health Professions and Prelaw Center events](#), including visits to campus by the director of admissions at the Purdue University School of Pharmacy, and the annual Health Programs Fair, where you can meet with admissions representatives from pharmacy schools.

However, you should be aware that most prepharmacy students find their first semester taking college-level science course work surprisingly challenging, so you should not feel the pressure to overload yourself with extracurricular activities immediately. You may wish to set up job shadowing with pharmacists for the period when you will be home for winter break between the fall and spring semesters, so you can explore further your interest in pharmacy and confirm whether it is the path you want to pursue for your career.

Many prepharmacy students find the science course work challenging. If you know that you want to pursue a career in health care, but decide that you are unsure about the career of a pharmacist, there are many other fulfilling [health professions](#) you could pursue.

Please consult the [Health Professions and Prelaw Center website](#) for more information on preparing

for pharmacy school and services for prepharmacy students.

Pre-Physical Therapy Study

This section provides information for planning for admission to physical therapy programs, beginning with your first semester in college. When you meet with an academic advisor during New Student Orientation, please make sure you mention your intention to follow a pre-physical therapy preparatory program. You will be subscribed to the HPPLC mailing list and receive invitations to participate in [events](#) of interest to you.

DESCRIPTION OF THE PROFESSION

Physical therapists (PTs) examine, diagnose, and administer treatment to individuals to restore function, relieve pain, and prevent disability following disease, injury, or loss of function; these examination and intervention activities are based upon research evidence. PTs can work in many different settings, and can develop specializations working with specific conditions. Physical therapy is one of the fastest growing health fields, and PTs are employed in many different settings. PTs must possess creative problem-solving skills, resourcefulness, patience, manual dexterity, physical stamina, and the ability to work closely with people from a variety of backgrounds.

THE DEGREE PATH

All PTs are required to earn a graduate degree (master's or clinical doctorate) from an accredited physical therapist training program. The doctoral degree will eventually be the norm. The Indiana University School of Health and Rehabilitation Sciences offers a Doctor of Physical Therapy (DPT) program on IU's Indianapolis campus (IUPUI). While IUB does not offer a PT program, hundreds of pre-PT students complete their undergraduate degree and admission requirements at IUB and then apply to DPT programs such as the one at IUPUI.

To be eligible to apply to the DPT program, you must successfully complete certain prerequisite courses and other admission requirements. Before beginning the doctorate itself, you must successfully complete a bachelor's degree and major of your choice. (Your prerequisite courses will be spread out across your undergraduate semesters.)

ADMISSION IS COMPETITIVE

Admission to the IU PT program is very competitive (as is admission to most PT programs). Statistics show that students who invest 30 hours outside of class on

academics (e.g., studying, reading, getting help when needed) for every 15 hours spent in class are more successful than students who invest less time. *If you choose to ignore this advice, be aware that you are making a decision to be less competitive for admission to programs for which you might otherwise be competitive!*

Success in any graduate-level program requires that you become as professionalized as possible as an undergraduate. We strongly urge you to consult and adopt the [professional development model](#) on the Health Professions and Prelaw Center website.

REQUIRED JOB SHADOWING

Shadowing (or “clinical observation”) is a requirement for admission to most DPT programs. Shadowing can also help you decide whether or not a career in PT is the best choice for you, or whether you need to explore other fields. Furthermore, extensive observation in a variety of settings can help you become a more competitive applicant to PT programs.

Job shadowing experiences allow you to see the day-to-day responsibilities a given profession might involve within a given setting. HPPLC urges you to *begin shadowing now*, and to continue doing so throughout your undergraduate years if you do decide PT is the path for you.

HINT: We recommend you log your shadowing hours and take some notes during your experiences. Refer to the HPPLC’s PT page for more detailed suggestions.

PLANNING YOUR FALL COURSE OPTIONS

Choosing Your Degree and Major

Almost any degree and major works fine for pre-PT students, and most PT programs have no preference as to what major and degree you earn! In addition, there does not need to be an obvious connection between your major and PT (applicants from a dozen different majors were admitted to the IU PT program last year). Our recommendation is to simply choose a major (and perhaps a minor or two) that interests you. It is also perfectly fine to be exploratory in the beginning, and to work with your academic advisor throughout the year to discover a major that is a good fit for you. (Consult University Division resources for information about specific majors or for information about [exploring majors](#).)

You can learn more about additional admission requirements later during the year. (Refer to the [Health Professions and Prelaw Center Events Calendar](#) for announcements about PT group advising sessions and other PT events held throughout the year. *Also be sure to tell the academic advisor you meet at new Student*

Orientation that you are interested in pre-PT so you will be put on the HPPLC pre-PT email list.)

Your Course Load

A normal course load for preprofessional students is 14-16 credit hours, depending on the mix of classes. For the upcoming semester, if course availability permits, try to take 6-11 credits from the list below, and then fill in the rest of your schedule with courses pertaining to your potential major or exploratory interests. In your individual academic advising session during New Student Orientation, your academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

Physical Therapy Prerequisites (again, try to register for 6-11 credits of these courses for the upcoming semester):

- **Humanities/Social Sciences**
Usually two courses, from sociology, anthropology, art, history, and/or philosophy.
- **Human Anatomy**
ANAT-A 215. A 215 has limited seating and may not be available. If so, you can simply take it later. (We urge you to follow the anatomy study tips at <http://hpplc.indiana.edu/ohp/AnatomyStudyTips.shtml>.)
- **Human Physiology**
PHSL-P 215. Note that PHSL-P 215 is most appropriate if you have previously taken some anatomy and/or physiology in high school or college. P 215 has limited seating and may not be available. If so, you can simply take it later.
- **Chemistry**
CHEM-C 117, C 118, or 103, depending upon your placement.
- **Introductory Psychology**
PSY-P 101.
- **Human Lifespan Development**
HPER-F 150 or EDUC-P 314 is the best option.
- **Medical Terminology**
CLAS-C 209.
- **Physics (two courses with lab)**
PHYS-P 201 and P 202 or PHYS-P 221 and P 222. Physics may be appropriate for some freshmen, but not for most. If you were very successful in a recent, challenging high school physics class, then, depending on factors such as your Math Skills Assessment, you can discuss with an academic advisor whether physics is an appropriate choice for the upcoming term. If so, P 201 and P 202 are normally the best choices.

- **Statistics**

Multiple course options. Most freshmen are not ready to take college-level statistics (which tends to be very different from high school stats). Consult with an academic advisor if you are considering enrolling in statistics during your freshman year.

- **REQUIRED additional courses**

Follow the directions for the APW for listing additional course options. The additional courses you list on the APW should *not* include the above required courses!

- **Additional Planning Notes**

- » Math/science courses must be major-level courses to count for PT admission. If placement exams recommend or require you to take a prep course or prerequisite prior to a required course, don't worry: with careful planning (and consultation with your academic advisor) you can still complete all prerequisite courses in a timely manner.
- » Placement Credit and Exemptions: Some PT programs may not accept Advanced Placement (AP) credit, credit-by-exam, or exemption from degree requirements in place of admission requirements, or may only accept such credit under specific circumstances. If you have placement credit and/or exemptions, you will eventually need to check with programs to confirm their policies.

REQUIRED ADMISSION GPA VERSUS COMPETITIVE GPA

Note that while a minimum Cumulative Grade Point Average (CGPA) of 3.2 is required to apply to the IU PT program, a considerably higher GPA is likely necessary to be competitive for admission. Likewise, while a minimum math/science GPA of 3.2 is also required to apply (grades earned in prerequisite physics, chemistry, anatomy, physiology), a considerably higher math/science GPA is likely necessary to be competitive for admission.

OTHER ACTIVITIES FOR PRE-PHYSICAL THERAPY STUDENTS DURING THE FIRST YEAR OF COLLEGE

For the first year of college, other activities you may consider include gaining experience through shadowing physical therapists or volunteering, as well as other community service activities. You should also attend [Health Professions and Prelaw Center events](#).

Many pre-physical therapy students find the science course work challenging. If you know that you want to pursue a career in health care, but decide you are unsure

about physical therapy, there are many other fulfilling [health professions](#) you could pursue.

Please consult the [Health Professions and Prelaw Center website](#) for more information on preparing for physical therapy school and services for pre-physical therapy students.

Pre-Physician Assistant Study

This section provides information for planning for admission to physician assistant programs, beginning with your first semester in college. When you meet with an academic advisor during New Student Orientation, please make sure you mention your intention to follow a pre-physician assistant preparatory program. You will be subscribed to the HPPLC mailing list and receive invitations to participate in [events](#) of interest to you.

DESCRIPTION OF THE PROFESSION

Physician assistants (PAs) are health care professionals licensed to practice medicine with physician supervision. As part of their comprehensive responsibilities, PAs conduct physical exams, diagnose and treat illnesses and injuries, order and interpret lab tests and X-rays, counsel on preventative health care, assist in surgery, and write prescriptions. PAs work in all areas of medicine, and therefore practice in primary care (e.g., family medicine, internal medicine, pediatrics, obstetrics and gynecology) as well as surgery and the surgical sub-specialties. Skills and characteristics important to this profession include: critical thinking and problem-solving skills, empathy, ability to work quickly and make good decisions under pressure, excellent time management skills, effective interpersonal communication, the ability to work with a team of care givers, and willingness to invest in continued education as health care methodology and technology change.

THE DEGREE PATH

Most states now require that new PA's earn a master's degree (M.P.A.) from an accredited PA training program before they can practice in that state. There are still some programs offering lesser PA degrees and certificates, but we strongly urge you to avoid these programs and pursue the master's degree. The M.P.A. has effectively become the new norm.

While IU does not currently offer a PA program, hundreds of pre-PA students complete their undergraduate degree and admission requirements at IUB, and then apply to M.P.A. programs across the country. (The Physician Assistant Education Association provides a [list of accredited PA programs](#).)

Admission to graduate-level PA programs usually requires completion of a bachelor's degree of your choice, including prerequisite courses and other admission requirements, which, with careful planning, can be worked into most four-year undergraduate degrees/majors. Admission requirements vary by PA program. HPPLC is staffed with professional academic advisors who can help you learn how to research PA programs and assess what admission requirements you must fulfill to become eligible to apply to a variety of PA programs.

ADMISSION IS COMPETITIVE

Admission to PA programs is competitive. Statistics show that students who invest 30 hours outside of class on academics (e.g., studying, reading, getting help when needed) for every 15 hours spent in class are more successful than students who invest less time. *If you choose to ignore this advice, be aware that you are making a decision to be less competitive for admission to programs for which you might otherwise be competitive!*

Success in any graduate-level program requires you to become as professionalized as possible as an undergraduate. We strongly urge you to consult and adopt the [professional development model](#) on the Health Professions and Prelaw Center website.

REQUIRED JOB SHADOWING

Shadowing (or “clinical observation”) is a requirement for admission to most PA programs. Shadowing can also help you decide whether or not a career in PA is the best choice for you, or whether you need to explore other fields. Furthermore, extensive observation in a variety of settings can help you become a more competitive applicant to PA programs.

Job shadowing experiences allow you to see the day-to-day responsibilities a given profession might involve within a given setting. HPPLC urges you to *begin shadowing now*, and to continue doing so throughout your undergraduate years if you do decide that PA is the path for you.

HINT: We recommend you log your shadowing hours and take some notes during your experiences.

REQUIRED PATIENT CARE EXPERIENCE

Unlike other health profession training programs, most PA programs require or strongly prefer applicants have some actual patient care experience. Don't concern yourself right now with how much patient care experience you might need. Instead, if you are contemplating PA, simply begin garnering some experience as soon as you can.

Many pre-PA students earn their EMT certification (or their CNA), volunteer to work with patients in nursing homes, or become a hospice volunteer, all of which are good examples of how even as an undergraduate you can acquire genuine patient care experience. During the upcoming semester, feel free to meet with HPPLC pre-PA advising staff, who can help you decide which option(s) make sense for you.

PLANNING YOUR FALL COURSE OPTIONS

Choosing Your Degree and Major

Almost any degree and major works fine for pre-physician assistant students, and most PA programs have no preference as to what major and degree you earn! In addition, there does not need to be an obvious connection between your major and the PA profession. Each year, IUB students from a vast variety of majors and degrees are admitted to PA programs across the country. Our recommendation is to simply choose a major (and perhaps a minor or two) that interests you. It is also perfectly fine to be exploratory in the beginning, and to work with your academic advisor throughout the year to discover a major that is a good fit for you, as you continue to work in PA prerequisites. (Consult University Division resources for information about specific majors or for information about [exploring majors](#).)

You can learn more about additional admission requirements later during the year. (Refer to the [Health Professions and Prelaw Center Events Calendar](#) for announcements about PA group advising sessions and other PA events held throughout the year. *Also be sure to tell the academic advisor you meet at New Student Orientation that you have an interest in pre-PA so you will be put on the HPPLC pre-PA email list.*)

Your Course Load

A normal course load for preprofessional students is 14-16 credit hours, depending on the mix of classes. For the upcoming semester, if course availability permits, try to take 6-11 credits from the list below, and then fill in the rest of your schedule with courses pertaining to your potential major or exploratory interests. In your individual advising session during New Student Orientation, an academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

Some Physician Assistant Prerequisite Options

Below is a list of *possible* PA prerequisites. Prerequisites vary by program. The list below includes courses that are commonly required by many different PA programs, but not necessarily required by all.

- **Chemistry**
CHEM-C 117 or CHEM-C 103, depending upon your placement. Chemistry is required of virtually all PA programs.
- **Human Anatomy**
ANAT-A 215 Anatomy is required of virtually all PA programs. ANAT-A 215 has limited seating and may not be available. If so, you can simply take it later. (We urge you to follow the anatomy study tips at <http://hpplc.indiana.edu/ohp/AnatomyStudyTips.shtml>.)
- **Human Physiology**
PHSL-P 215. Physiology is required of virtually all PA programs. Note that PHSL-P 215 is most appropriate if you have previously taken some anatomy and/or physiology in high school or college. P 215 has limited seating and may not be available. If so, you can simply take it later.
- **Biology**
Biol-L 112. Most PA programs require college-level biology. Talk with an academic advisor about whether L 112 is appropriate during your first semester. Waiting until after you have had college chemistry might be wise, but it depends on your background and science aptitude. We normally do not advise that freshmen take L 112 with chemistry, but, again, this varies by student.
- **Introductory Psychology**
PSY-P 101. Introductory psychology is required of a fair number of PA programs, and is a prerequisite for upper-level psychology.
- **Developmental Psychology (Lifespan Development)**
HPER-F 150 or EDUC-P 314. Note that whether either course fulfills this requirement will vary by PA program.
- **Medical Terminology**
CLAS-C 209. Required by some PA programs.
- **Physics (two courses with lab)**
PHYS-P 201 and P 202 or PHYS-P 221 and P 222. Required by some PA programs. Physics may be appropriate for some freshmen, but not for most. If you were very successful in a recent, challenging high school physics class, then, depending on factors such as your Math Skills Assessment, you can discuss with an academic advisor whether physics is an appropriate choice for the upcoming term. If so, P 201 and P 202 are normally the best choices.
- **Mathematics**
- Requirement varies by program. Those PA programs that require math tend to want a 100-level, college-level math. Talk with an academic advisor about your placement.
- **Statistics**
Multiple course options. Most freshmen are not ready to take college-level statistics (which tends to be very different from high school stats). Consult with an academic advisor if you are considering enrolling in statistics during your freshman year.
- **Arts and Humanities**
Some PA programs require a minimum number of Arts and Humanities courses. Choose any A & H offerings that look interesting to you.
- **EMT Certification**
At this point, do not look upon EMT certification as a requirement, but as one option for garnering patient care experience. If you are interested in earning your EMT through IU, you must begin with HPER-H 160. This first aid course is a prerequisite for the EMT courses. Please note that many hospitals, fire stations, and private companies offer EMT certification. The IU EMT courses are just one option. HPPLC pre-PA advising staff can help you locate other options if you wish.
- **REQUIRED additional courses**
Follow the directions for the APW for listing additional course options. The additional courses you list on the APW should *not* include the above courses!
- **Additional Planning Notes**
 - » Math/science courses must be major-level courses to count for PA admission. If placement exams recommend or require you take a prep course or prerequisite prior to a required course, don't worry: with careful planning (and consultation with an academic advisor) you can still complete prerequisite courses in a timely manner.
 - » Placement Credit and Exemptions: Some PA programs may not accept Advanced Placement (AP) credit, credit-by-exam, or exemption from degree requirements in place of admission requirements, or may only accept such credit under specific circumstances. If you have placement credit and/or exemptions, you will eventually need to check with programs to confirm their policies.
 - » If you have Advanced Placement (AP) credit or previous college credit for PSY-P 101, then

you might consider taking PSY-P 102 if it is available.

REQUIRED ADMISSION GPA VERSUS COMPETITIVE GPA

Note that all PA programs will publicize some kind of minimum Grade Point Average (GPA) required to apply. Talk with a HPPLC pre-PA advisor about the difference between a required minimum GPA and a *competitive* GPA. Usually the GPA necessary to be truly competitive for admission is substantially higher than the minimum required to apply. Minimum and competitive GPAs will vary by program.

OTHER ACTIVITIES FOR PRE-PHYSICIAN ASSISTANT STUDENTS DURING THE FIRST YEAR OF COLLEGE

For the first year of college, other activities you may consider include gaining experience through shadowing physician assistants or volunteering, as well as other community service activities. You should also attend [Health Professions and Prelaw Center events](#).

Many pre-physician assistant students find the science course work challenging. If you know that you want to pursue a career in health care, but decide you are unsure about a career as a physician assistant, there are many other fulfilling [health professions](#) you could pursue.

Please consult the [Health Professions and Prelaw Center website](#) for more information on preparing for physician assistant and services for pre-physician assistant students.

Preveterinary Study

This section provides information for planning for admission to veterinary programs, beginning with your first semester in college. When you meet with an academic advisor during New Student Orientation, please make sure you mention your intention to follow a preveterinary preparatory program. You will be subscribed to the HPPLC mailing list and receive invitations to participate in [events](#) of interest to you.

DESCRIPTION OF THE PROFESSION

Veterinarians serve in a variety of roles in our society. They provide health care for animals in all types of settings, conduct research, and protect humans against diseases carried by animals.

CHOOSING YOUR DEGREE AND MAJOR

Although you do not have to have earned a bachelor's degree to gain admission to a veterinary medicine school, most students have completed an undergraduate degree before they begin the professional program. If

you decide to pursue an undergraduate degree, then you can choose any undergraduate major as long as you have completed all the courses required for admission to veterinary school. While many preveterinary students choose to major in biology because most schools require several biology courses, this is not at all required. There need *not* be an obvious connection between your major and veterinary medicine.

BACHELOR OF ARTS VERSUS BACHELOR OF SCIENCE

In addition, many students ask, "Which is better for veterinary school, a bachelor of arts or a bachelor of science degree?" Veterinary schools do not have a preference for either a B.A. or a B.S., although there are differences in these degrees. Generally with a B.S. you will complete more course work up to a more advanced level in your major field. With a B.A. you will be required to complete fewer courses in your major, which leaves more room to take a variety of course work in other fields. A bachelor of arts degree could thus provide advantages in giving your education greater breadth, while a bachelor of science degree will give you greater depth in the sciences. Deciding whether to pursue a B.A. or a B.S. degree may also depend on what kind of a career and/or graduate program you will want to pursue if you decide not to enter the field of veterinary medicine.

VETERINARY MEDICINE ADMISSION REQUIREMENTS

As a preveterinary student, you will find admission requirements vary from program to program. For most veterinary schools, you will have to obtain a strong foundation in the sciences; develop excellent communication skills, and complete courses in the humanities, social sciences, and business. The science courses will generally include one year of general chemistry with laboratory, organic chemistry with laboratory, biochemistry, physics with laboratory, and several biology courses that include diversity, developmental biology, cell structure, genetics, and microbiology.

You will become a more competitive applicant by gaining considerable experience in working with animals in different settings, including a clinical setting. Also, veterinary medicine schools generally require you take the Graduate Record Exam (GRE). Be sure to schedule an appointment with an academic advisor in HPPLC during your first year at IUB. Also, you can gain very useful information about veterinary medicine by going to this link, which is part of the HPPLC website: <http://hpplc.indiana.edu/ohp/ohp-vt.shtml>.

ADMISSION IS COMPETITIVE

Admission to veterinary school is very competitive. Success in any graduate-level program requires you to become as professionalized as possible as an undergraduate. We strongly urge you to consult and adopt the [professional development model](#) on the HPPLC website.

PLANNING YOUR FALL COURSE OPTIONS

Your Course Load

A normal course load for preprofessional students is 14-16 credit hours, depending on the mix of classes. For the upcoming semester, if course availability permits, try to take 6-11 credits from the list below. You can fill the rest of your schedule with courses pertaining to other interests. In your individual academic advising session during New Student Orientation, your academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

First-year courses can include:

- **English Composition**
ENG-W 131
- **Speech**
CMCL-C 121 or 122
- **Math**
MATH-M 211 (this is the preferred course) or
MATH-M 119
- **Biology**
BIOL-L 111, BIOL-L 112
- **Chemistry**
CHEM-C 117 or 103, depending upon your score on the online Chemistry Placement Exam
- **Humanities Course**
See your academic advisor about possible courses.
- **Social Science Course**
See your academic advisor about possible courses.
- **Introductory Business Course.**
Possible courses include BUS-X 100 or A200.
- **Other Possible Courses**
ECON-E 201 and/or PHYS-P 201, depending on your academic background and the other courses on your fall semester schedule.

OTHER ACTIVITIES FOR PREVETERINARY STUDENTS DURING THE FIRST YEAR OF COLLEGE

For the first year of college, other activities you may consider include gaining experience through shadowing veterinarians or volunteering, as well as other

community service activities. You should also attend [Health Professions and Prelaw Center events](#).

Many preveterinary students find the science course work challenging. If you know that you want to pursue a career in health care, but decide you are unsure about veterinary medicine, there are many other fulfilling [health professions](#) you could pursue.

Please consult the [Health Professions and Prelaw Center website](#) for more information on preparing for veterinary school and services for pre-veterinary students.

UNDERGRADUATE DEGREES AND CERTIFICATES COMPLETED AT OTHER IU CAMPUSES

The undergraduate degrees and certificates listed below include IU health-related degrees that you may begin on the Bloomington campus but must complete at other IU campuses. (IUPUI, the Indianapolis campus, is cited most frequently, but other IU campuses may offer similar programs.) In this case, you would complete prerequisite courses and other admission requirements while at IUB and apply to these programs at least six months prior to beginning the professional program itself. Refer to Health Professions and Prelaw Center handouts and online resources for application deadlines and other pertinent information.

IMPORTANT: While some IUB students do successfully complete the admission requirements for the programs below in a timely manner, and then go on to successfully apply and be admitted, in many cases it might be more efficient for a student to simply complete the prerequisites on the IU campus that actually offers the program and apply directly from there, instead of completing prerequisites at IUB. (Health Information Administration (HIA) is one possible exception; see the HIA section for details). Be sure to consider all of your options ahead of time. If you enter IUB in the upcoming term, feel free to consult with an academic advisor in the Health Professions and Prelaw Center (812) 855-1873 to discuss your circumstances and any of the programs in the section below.

Indiana University Dental Hygiene Programs

INTRODUCTION

Description of the Profession

Dental hygienists are trained and licensed to provide preventive dental services. These services include, among other responsibilities, cleaning patients'

teeth with a variety of instruments, taking X-rays, examining teeth and gums and recording the presence of diseases or abnormalities, and educating patients to help them develop and maintain good oral health. Skills and characteristics important to this profession include patience, attention to detail, interpersonal communication skills, the ability to work with a team of care givers, excellent fine motor skills, the ability to cope with repetitive work, and the ability to stand for long periods of time.

The Degree Path

Most states require dental hygienists earn either an Associate of Science degree (A.S.D.H.) or a Bachelor of Science (B.S.D.H.) from an accredited dental hygiene training program before they can practice in that state. Most DHs currently earn the A.S.D.H., and some later go on to complete the B.S. Most Indiana University entry-level dental hygiene programs, including the one in the IU School of Dentistry at the Indianapolis campus (IUPUI), are A.S.D.H. programs. Most of the B.S.D.H. programs offered through IU regional campuses are “completion degrees,” meaning you need to complete the A.S.D.H. before applying to the B.S. program. Most B.S.D.H. programs provide additional training that opens up additional career options in public health, teaching, research, business, and/or marketing.

Entry-level A.S.D.H. programs are available on the following IU campuses: IUPUI (Indianapolis—IU School of Dentistry), IPFW (Fort Wayne), IUN (Northwest—Gary), and IUSB (South Bend).

Important Cautions

IUB does not offer a dental hygiene program. You may complete your prerequisite course work at IUB and then apply to DH programs at other IU campuses. In the past, approximately 8–10 IUB students have been admitted to the program at IUPUI each year.

However, you should be aware from the start that, for a variety of reasons, IUB students are at somewhat of a competitive disadvantage for admission to the IUPUI and some other IU DH programs. In addition, it may be possible to complete your prerequisites in one year rather than two at those IU regional campuses that offer a dental hygiene professional program.

If you are an out-of-state, transfer, or intercampus transfer student, you should seriously contemplate whether attending IUB is the best choice for you as you pursue your dental hygiene training.

If you do decide to complete your DH prerequisites at IUB, because of the competitive nature of the admission process, we strongly urge you to apply to three or more dental hygiene programs!

ADMISSION TO IU DENTAL HYGIENE PROGRAMS

Admission Is Competitive

Admission to IU dental hygiene programs is competitive. Carefully read the above cautions.

Statistics show that students who invest 30 hours outside of class on academics (e.g., studying, reading, getting help when needed) for every 15 hours spent in class are more successful than students who invest less time. If you choose to ignore this advice, be aware that you are making a decision to be less competitive for admission to programs for which you might otherwise be competitive!

Admission and Degree Timeline

Because of the sequencing of the science prerequisites, IUB students almost always need two years to complete the DH admission courses. If you are admitted, you would begin the dental hygiene program itself in your third year. Note that, once admitted, you would take two additional years of dental hygiene professional course work to complete your A.S.D.H. Thus, it takes successful IUB applicants four years to complete the A.S.D.H., whereas it may be possible to complete prerequisites in one year rather than two at some IU regional campuses, and so complete the degree in three years.

There is some variation of admission criteria among IU campuses. Other factors in admission may include shadowing or observation of dental hygienists, cumulative GPA, science prerequisite GPA, overall prerequisite GPA, participation in an orientation session or open house, a personal statement, and the number of credit hours completed.

Required Job Shadowing

Shadowing (or “clinical observation”) is a requirement for admission to most DH programs. Shadowing can also help you decide whether or not a career in DH is the best choice for you, or whether you need to explore other fields.

Job shadowing experiences allow you to see the day-to-day responsibilities a given profession might involve within a given setting. HPPLC urges you to begin shadowing now. We recommend you log your shadowing hours and take some notes during your experiences.

PLANNING YOUR FALL COURSE OPTIONS

Your Course Load

A normal course load for preprofessional students is 14–16 credit hours, depending on the mix of classes. For the upcoming semester, if course availability permits, try to take 9–14 credits from the list below, including one

of the lab courses, if possible. You can fill the rest of your schedule with courses pertaining to other interests. In your individual academic advising session during New Student Orientation, an academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

Dental Hygiene Prerequisites

Remember most IUB students take two years to complete their prerequisites. First-year courses can include:

- **English Composition**
ENG-W 131 or 170
- **Public Speaking**
CMCL-C 121
- **Science Courses**
In the upcoming term, try to enroll in one of the following lecture/lab courses:
 - » Chemistry: CHEM-C 101 and CHEM-C 121.
May be taken in separate semesters, but try to take them together.
 - » Human Anatomy: ANAT-A 215. ANAT-A 215 has limited seating and may not be available. If so, you can take it later. (We urge you to follow the anatomy study tips at <http://hpplc.indiana.edu/ohp/AnatomyStudyTips.shtml>.)
 - » Human Physiology: PHSL-P 215. Note that PHSL-P 215 is most appropriate if you have previously taken some anatomy and/or physiology in high school or college. P 215 has limited seating and may not be available. If so, you can take it later.
 - » Medical Terminology: CLAS-C 209. Required by IPFW.
- **Introductory Psychology**
PSY-P 101. Note that neither PSY-P 102 nor 155 fulfills this requirement.
- **Introductory Sociology**
SOC-S 100.
- **Arts and Humanities (A & H)**
Each IU DH program requires 6 credit hours (two courses) of Arts and Humanities courses. You could take one or two A & H courses in the upcoming term.
- **Computer Science**
CSCI-A 110. Required by IU Northwest.
- **Nutrition**
HPER-N 220 or N 231. Required by IU Northwest. 220 is probably the better choice unless you have recently done well in a rigorous high school chemistry course.
- **Elective Courses**

On your APW, list other courses that look interesting to you. Many pre-DH students complete minors while at IUB. Consult with an academic advisor about your interests.

ADDITIONAL INFORMATION

You can learn more about additional admission requirements later during the year. (Refer to the [HPPLC Events Calendar](#) for announcements about DH group advising sessions and other DH events held throughout the year. Also be sure to tell an academic advisor you have an interest in pre-DH so you will be put on the HPPLC pre-DH email list.)

REQUIRED ADMISSION GPA VERSUS COMPETITIVE GPA

The minimum cumulative GPA required to apply varies across IU dental hygiene programs, but ranges from a 2.00 to 3.00. The minimum science GPA required for the program at IUPUI (IU School of Dentistry) is a 2.70. Much higher GPAs are needed in order to be competitive for admission to the program at IUPUI, and considerably higher, too, for admission to the other IU DH programs.

School of Informatics (IUPUI) Health Information Administration Program

INTRODUCTION

Description of the Profession

Health Information Administration (HIA), sometimes called Health Information Management (HIM), may be a good fit for you if you want to work in the health fields, but prefer not to have much, if any, direct patient contact.

Health information professionals play a key role in maintaining, collecting, interpreting, analyzing, and protecting health care data. They are experts in coding and classification systems, management of patient health information, and administration of computer information systems. They also interact with clinical, financial, administrative, information technology, and legal staff to interpret data for patient care, research, statistical reporting, and database content development. Skills and characteristics important to this profession include excellent attention to detail, the ability to multitask; being comfortable working within a software and technology-driven environment, and organizing large volumes of detailed information; an interest in learning about and adapting to new technology; effective interpersonal communication and writing skills; the ability to work independently as well as

cooperatively with a variety of people; and a high degree of professionalism.

Feel free to visit the IU [HIA website](#). Looking at the upper-level course work can give you a greater sense of what the degree involves.

If you decide you want to pursue the Health Information Administration degree, contact HPPLC at (812) 855-1873 sometime during the first half of the upcoming term and schedule an appointment with one of our preprofessional academic advisors.

The Degree Path

IUB does not offer a health information administration program; however, you may complete the prerequisite course work on the Bloomington campus and apply for admission to the IU School of Informatics HIA program on the Indianapolis campus. If admitted, you can either complete all remaining course work for the HIA Bachelor of Science degree online while remaining in Bloomington, or you may transfer to IUPUI (Indianapolis) to complete the remaining HIA course work there.

Admission to the Health Information Administration Program

Admission to the IU HIA program is somewhat competitive, but much less so than most other IU programs in the health fields.

Nonetheless, the two years of prerequisites present a full and challenging course load. Statistics show that students who invest 30 hours outside of class on academics (e.g., studying, reading, getting help when needed) for every 15 hours spent in class are more successful than students who invest less time. If you choose to ignore this advice, be aware that you are making a decision to be less well-prepared when it comes time to complete the HIA professional course work!

You will need a minimum cumulative GPA of 2.5 and a C or higher (not a C–) in each prerequisite course to be eligible to apply. A grade of C in a class, however, often indicates you have not mastered the content, so you should work for considerably higher grades.

Job Shadowing

While shadowing (or “observation”) is not required for admission to the IU HIA program, we strongly recommend you contact hospitals or other health care facilities in Bloomington or in your hometown to arrange shadowing or informational interviews with professionals in the field. You should feel free to contact Molly Rondeau, assistant to the program director ([317] 278-7686, or mrondeau@iupui.edu) to discuss the

profession. Ms. Rondeau can also put you in touch with HIA faculty. These conversations can help you decide whether or not a career in this field is a good fit for you.

Job shadowing and informational interviews can help you understand the day-to-day responsibilities a given profession might involve within a given setting. HPPLC urges you to begin these activities now. We further recommend you log any shadowing hours and take some notes during your experiences. Doing so can help you prepare for the admissions interview.

PLANNING YOUR FALL COURSE OPTIONS

Your Course Load

A normal course load for preprofessional students is 14–16 credit hours, depending on the mix of classes. For the upcoming semester, if course availability permits, try to take 14–16 credits from the list below, as there is little room for elective credits among the HIA prerequisites. The prerequisites take two years to complete, with careful planning. (You can also utilize Summer Sessions if need be.) In your individual academic advising session during New Student Orientation, an academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

Health Information Administration Prerequisites

First-year courses vary, but can include:

- **English composition:**
ENG-W 131 or 170
- **Public Speaking**
CMCL-C 121
- **Human Anatomy**
ANAT-A 215. ANAT-A 215 has limited seating and may not be available. If so, you can take it later. (We urge you to follow the anatomy study tips at <http://hpplc.indiana.edu/ohp/AnatomyStudyTips.shtml>.)
- **Human Physiology**
PHSL-P 215. Note that PHSL-P 215 is most appropriate if you have previously taken some anatomy and/or physiology in high school or college. P 215 has limited seating and may not be available. If so, you can take it later.
- **Information Technology**
 - » INFO-I 101
 - » BUS-K 201
- **Finite Math**
Either MATH-M 118 or MATH-S 118 is strongly preferred. MATH-A 118 or MATH-D 116-117

are acceptable. Talk with an academic advisor regarding your math placement.

- **Business**
 - » BUS-A 200
 - » BUS-X 100
- **Humanities (A & H)**
 - » PHIL-P 140 or REL-R 170
 - » Any other 3 credit Arts and Humanities course.
- **Social and Behavioral Science**
PSY-P 102 or SOC-S 100. PSY- P 155 is acceptable but is intended for psychology majors, and not recommended for most other students. PSY-P 101 is a recommended prerequisite for P 102; P 101 itself will not fulfill the Social and Behavioral Science requirement.
- **Elective**
There is room for 3–6 credits of electives among the HIA prerequisites. We recommend, however, that you focus on specific requirements and avoid taking 3 credit electives if possible.

IU School of Medicine Health Professions Programs

If while you are an IU Bloomington student, you wish to pursue a degree in **clinical laboratory science, cytotechnology, medical imaging technology, nuclear medicine technology, paramedic science, radiography, radiation therapy, or respiratory therapy** (all offered through the IU School of Medicine [IUSM]), you would first complete your prerequisites and other admission requirements at IUB. Then, if you successfully apply to your preferred IUSM program, you would transfer to the IUPUI campus in Indianapolis. Before you decide to pursue an IUSM program, be sure to read the important note above, beneath "[Undergraduate Degrees and Certificates Completed at Other IU Campuses.](#)"

If you do choose to pursue one of these degrees, contact your University Division academic advisor or an academic advisor in the Health Professions and Prelaw Center (HPPLC) in Maxwell Hall 010 ([812] 855-1873, www.hpplc.indiana.edu). Among other services, HPPLC offers academic advising leading up to and through the application and admission process.

You are responsible for obtaining the most current information directly from the [IUSM Health Professions Programs](#) site. You may also contact them directly at (317) 278-4752, or email specific questions to askhpp@iupui.edu.

ADMISSION TO IUSM HEALTH PROFESSIONS DEGREE PROGRAMS

Admission to the IUSM programs is competitive; for some, extremely so.

Admission requirements vary widely among the IUSM programs. You may take the prerequisite courses on the IUB campus for one to three years, depending on the specific program, in order to qualify for admission to these associate and bachelor's degree programs. If admitted to a program, you must complete one to two years of professional study, which includes a clinical practice component, on the Indianapolis (IUPUI) campus. Or, you could seek admission to one of the programs at IU Northwest, IU South Bend, IPFW (Fort Wayne), IU Kokomo, or IU Southeast.

As you look through the different health professions programs below, you will see that each program has its own GPA requirements. Also note that you must earn at least a C (not a C–) in each of the prerequisite courses for all of the health professions programs (respiratory therapy requires a C in each math and science course).

To be competitive for admission to most of these programs, you will need to earn a cumulative GPA that is much higher than the listed minimums. Admission is competitive because the availability of clinical facilities is limited. Therefore, you are not guaranteed admission to any of the programs by just completing the prerequisites and other admission requirements.

When the time comes, you will submit your application directly to the IUSM Health Professions Programs. For specific deadline dates and other important details, refer to the [IUSM Health Professions Programs](#) site or consult the HPPLC site.

For now, however, you should stay focused on planning your fall schedule and preparing for your Orientation academic advising appointment. You can learn more details about the programs later.

CLINICAL LABORATORY SCIENCE, BACHELOR OF SCIENCE (B.S.) DEGREE

Clinical laboratory scientists sample and analyze blood, fluids, and body tissues to reveal abnormalities. They use sophisticated instruments and must be thoroughly knowledgeable about scientific principles and techniques relating to clinical laboratory medicine.

Minimum GPA required to apply: 2.5 cumulative GPA with a 2.5 GPA in all mathematics and science courses at the time of application. The actual average cumulative GPA for admitted students is considerably higher. See your academic advisor for details. You can complete

the three years of prerequisite admissions courses (90 credit hours) at IU Bloomington before you begin the professional program at IUPUI.

Planning Your Fall Course Options

A normal course load for preprofessional students is 14–16 credit hours, depending on the mix of classes. In your individual session during Orientation, your academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

- **English composition:**
ENG-W 131
- **Speech Course**
CMCL-C 121 or CMCL-C 122
- **Humanities Course**
Choose a course from one of these academic areas: African American and African Diaspora studies, classical studies, communication and culture (and this can include an additional speech course), literature, English, film studies, folklore, foreign languages and cultures, gender studies, history, journalism, Latino studies, minority studies, philosophy, religious studies, and visual and performing arts.
- **Two Social and Behavioral Science Courses**
Choose courses from these academic areas: Psychology, sociology and anthropology courses are preferred. Courses in economics, minority studies, and political science will be accepted on approval, which is based on the course content.
- **Math Courses:** To fulfill this requirement, you will take either a combination of courses or one course. Choose from MATH-M 25, MATH-M 27, MATH-M 119, or MATH-M 211.
- **Chemistry**
CHEM-C 117 or CHEM-C 103 if you do not place into CHEM-C 117.
- **Biology**
BIOL-L 112
- **Electives**
Choose with help from your academic advisor.

Shadowing and Observation

You are not required to do shadowing and observation, but you are strongly encouraged to do so. You will determine whether or not to pursue this field through such experiences. Also, your knowledge of the field will be especially helpful during the required interview for admission to the program.

CYTOTECHNOLOGY, BACHELOR OF SCIENCE (B.S.) DEGREE

Cytotechnologists collect, inspect, and evaluate cells to detect cancer and other diseases. One of the primary objectives in this field is to discover cancer early, when the best chances for a complete cure exist.

Minimum GPA required to apply: 2.5 cumulative GPA with a 2.5 GPA in all biology courses. The actual average cumulative GPA for admitted students is considerably higher. Please see your academic advisor for more details. You can complete the prerequisite admissions courses in three years (90 credit hours) at IU Bloomington before you begin this professional program at IUPUI.

Planning Your Fall Course Options:

A normal course load for preprofessional students is 14–16 credit hours, depending on the mix of classes. In your individual session during Orientation, your academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

- **English Composition**
ENG-W 131
- **Speech Course**
CMCL-C 121 or CMCL-C 122
- **Humanities Course**
Choose a course from one of these academic areas: African American and African Diaspora studies, classical studies, communication and culture (could be an additional speech course), literature, English, film studies, folklore, foreign languages and cultures, gender studies, history, journalism, Latino studies, minority studies, Latino studies, philosophy, religious studies, and visual and performing arts.
- **Social and Behavioral Science Course**
Psychology, sociology, and anthropology courses are preferred. Courses in economics, minority studies, and political science will be accepted on approval based on course content.
- **Math Courses**
MATH-M 025 or higher.
- **Chemistry**
CHEM-C 117, CHEM-C 101 / CHEM-C 121, or CHEM-C 103. Your choice of a chemistry course depends on alternative academic and career goals and possibly your score on the Chemistry Placement Exam.
- **Biology**
BIOL-L 112

- **Computer Course**
Talk with your academic advisor about what course would be most appropriate for you.
- **Electives**
HPER-H 320, FINA-H 100, and MSCI-M 131 are possible choices.

Shadowing and Observation

You are not required to do shadowing and observation, but you are strongly encouraged to do both. The knowledge that you will gain from working in the cytotechnology field or observing a cytotechnologist will be very helpful to you as an applicant to this program.

MEDICAL IMAGING TECHNOLOGY, BACHELOR OF SCIENCE (B.S.) DEGREE

Medical imaging technologists carry out advanced imaging procedures. To be eligible to pursue this degree, you must first complete the Associate of Science (A.S.) degree in Radiography or be A.R.R.T. certified and also complete additional prerequisites with a minimum cumulative GPA of 2.8. The actual average cumulative GPA for admitted students is considerably higher. See your academic advisor for details.

Planning Your Fall Course Options

A normal course load for preprofessional students is 14–16 credit hours, depending on the mix of classes. In your individual session during Orientation, your academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

Please see entry under “Radiography.” You could be admitted to the radiography program after attending IU Bloomington for one year.

Shadowing and Observation

You are not specifically required to do observations of medical imaging technologists. However, you must fill out and submit the Pre-Interview Questionnaire with your application for admission, and you can answer these questions more effectively if you have observed professionals and have gained knowledge about this field.

Nuclear Medicine Technology, Bachelor of Science (B.S.) Degree

Nuclear medicine technologists assist physicians when radioactive materials are used to diagnose or treat disease. Nuclear medicine procedures fall into two categories: those performed totally within the patient (in vivo), and those performed on patient specimens in the laboratory (in vitro).

Minimum GPA required to apply: 2.8 cumulative GPA with a 2.5 GPA in all mathematics and science courses. The actual average cumulative GPA for admitted students is considerably higher. Please see your academic advisor for more details.

Planning Your Fall Course Options

A normal course load for preprofessional students is 14–16 credit hours, depending on the mix of classes. For the upcoming semester, if course availability permits, try to take 14–16 credits from the list below, as there is not much room for elective credits among the nuclear medicine technology prerequisites. In your individual session during Orientation, your academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

- **English Composition**
ENG-W 131
- **Speech Course**
CMCL-C 121 or CMCL-C 122
- **Psychology course**
PSY-P 101
- **Social and Behavioral Sciences Elective**
PSY-P 102 or a course in anthropology, sociology, or some other course in psychology
- **Math Course**
MATH-M 25, MATH-M 118, or MATH-M 119. Two courses are required, and the preferred sequence is MATH-M 25 followed by MATH-M 26.
- **Computer Course**
Talk with your academic advisor about what course would be most appropriate for you.
- **Chemistry Course**
CHEM-C 101 / CHEM-C 121
- **Medical Terminology**
CLAS-C 209
- **Humanities Course**
Choose a course from one of the following academic areas: African American and African Diaspora studies, American studies, art history, classical studies, communication and culture, English literature, folklore, foreign languages and cultures, gender studies, history, journalism, Latino studies, music, philosophy, and religious studies.

With careful planning, you could complete the prerequisite admissions courses in two years (60 credit hours) at IU Bloomington before you transfer to IUPUI to complete the professional program.

Shadowing and Observation

You are required to do an on-site observation in a hospital nuclear med tech department to gain admission to this program. You will fill out and submit a Pre-Interview Questionnaire with your application for admission.

Paramedic Science, Associate of Science (A.S.) Degree

Paramedics manage medical emergencies of acutely ill or injured patients using advanced life support equipment and ambulance services in pre-hospital care settings. These emergency care professionals provide a variety of life support interventions such as emergency medication administration, intravenous therapy, heart monitoring, artificial respiration, and the stable transportation of victims to hospitals. Skills and characteristics important to this profession include critical thinking and problem-solving skills, empathy, ability to work quickly and make good decisions under pressure, ability to cope with being on call and having an irregular work schedule, effective interpersonal communication, ability to perform moderate to heavy lifting, and the ability to work with a team of care givers.

Minimum GPA Required to Apply: 2.3 cumulative GPA and a minimum grade of C (not C-) in all required prerequisites. Admission is somewhat competitive, and a 2.3 does not guarantee admission. A Health Professions and Prelaw Center preprofessional advisor can provide you with information about the admissions interview.

You can apply for either spring or fall admission, depending upon when you will have completed your prerequisite courses. Under optimal circumstances, it may be possible to complete all admission prerequisites during your first year. Note that you can still complete courses during the summer after your freshman year and still be admitted the following fall. Also note that you can, if need be, take courses during fall of your sophomore year and then apply for admission for spring of your sophomore year.

A Word of Caution: Limited availability of seats in anatomy and physiology sometimes means that a student must follow one of the latter options. Sometimes, for instance, a student may apply for fall admission and then need to finish a prerequisite during the summer. Or sometimes a student may need to apply for spring admission of the sophomore year (after three semesters instead of two) and finish courses during fall of the sophomore year. See a preprofessional advisor in the Health Professions and Prelaw Center early in the upcoming semester to discuss your options.

If you can indeed complete all admission requirements in the first year, you'll need to submit your application by February 1 for entry into the Paramedic Science Program the next fall. You would then complete the second year of courses on the IUPUI (Indianapolis) campus. Upon completion of the Paramedic Science A.S. degree, you would have the option of returning to IUB to finish a baccalaureate program. Feel free to discuss your interests with your academic advisor.

Planning Your Fall Course Options

A normal course load for preprofessional students is 14–16 credit hours, depending on the mix of classes. For the upcoming semester, if course availability permits, take 14–16 credits from the list below, as there is little room for elective credits among the paramedic science prerequisites. In your individual advising session during Orientation, your academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

Paramedic Science Prerequisites

First-year courses vary, but can include:

- **English Composition**
ENG-W 131
- **Oral Communication**
CMCL-C 121 or CMCL-C 122
- **Human Anatomy**
ANAT-A 215 (5 credits). ANAT-A 215 has limited seating and may not be available during later Orientation sessions. If so, you should waitlist it. (We urge you to follow the anatomy study tips at <http://hpplc.indiana.edu/ohp/AnatomyStudyTips.shtml>.)
- **Human Physiology**
PHSL-P 215 (5 credits). Note that PHSL-P 215 is most appropriate if you have previously taken some anatomy and/or physiology in high school or college. P 215 has limited seating and may not be available during Orientation. If so, setting up a waitlist might be feasible.
- **Mathematics**
MATH-M 014 or higher. (If you place into a level of math higher than M 014, you must still take a 3–4 credit math course. Discuss options with your Orientation academic advisor. AP math credit does fulfill the math requirement.)
- **Psychology**
PSY-P 101 or higher. (P 155 is an intensive course more appropriate for psychology majors and is not recommended for most other students.)

- **Sociology**
Can be fulfilled by any of the following courses: SOC-S 100, a 200-level or higher SOC course, or a cultural anthropology course (ask your Orientation academic advisor about ANTH options).
- **Emergency Medical Technician (EMT) Certification**
Applicants to the Paramedic Science program must earn their EMT certification before beginning the paramedic science professional course work. HPER-H 160 and HPER-H 401/H 4042, plus certification exams, will garner EMT certification. All three of these courses may be taken simultaneously, or you can take HPER-H 160 first and the others later. Note: Many hospitals, fire stations, and private companies offer EMT training. If possible, you might try to earn your EMT before beginning fall courses.
- **Elective Courses**
You may have some room for elective credit depending upon your situation. List at least 12–15 additional 3 *credit* courses that interest you on your Academic Planning Worksheet (APW).

RADIATION THERAPY, BACHELOR OF SCIENCE (B.S.) DEGREE

Radiation therapy technologists treat patients who have benign and malignant tumors by administering the prescribed dose of ionizing radiation to specific sites on the patient's body as directed by a physician.

Minimum GPA Required to Apply: 2.5 cumulative GPA with a 2.3 GPA in all prerequisite mathematics and science courses and a 2.5 GPA in stated prerequisite courses. The actual average cumulative GPA for admitted students is considerably higher. While applying the cumulative GPA standards, the selection process uses prerequisite course and math/science prerequisite course GPAs to rank-order candidates. See your academic advisor for details. With careful planning, you could complete the prerequisite admissions courses in two years (50 credit hours) at IU Bloomington before you transfer to IUPUI to complete this professional degree.

Planning Your Fall Course Options

A normal course load for preprofessional students is 14–16 credit hours, depending on the mix of classes. For the upcoming semester, if course availability permits, try to take 14–16 credits from the list below, as there is not much room for electives among the radiation therapy prerequisites. In your individual session during

Orientation, your academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

- **English Composition**
ENG-W 131
- **Speech Course**
CMCL-C 121 or CMCL-C 122
- **Psychology Course**
PSY-P 101
- **Math Course**
MATH-M 25 or MATH-M 119
- **Human Anatomy**
ANAT-A 215
- **Humanities Course**
Choose a course from one of these academic areas: African American and African Diaspora studies, classical studies, communication and culture, (could be an additional speech course), literature, English, film studies, folklore, foreign languages and cultures, gender studies, history, journalism, Latino studies, minority studies, philosophy, religious studies, and visual and performing arts.
- **Computer Course**
BUS-K 201 or CSCI-A 110
- **Business Elective**
Possible courses include BUS-X 100, BUS-F 260, BUS-A 200, BUS-L 100, or BUS-W 212
- **Elective Course**
Possible courses include HPER-H 220 and HPER-H 320

Shadowing and Observation

You are required to do at least 8 hours of on-site observation in one or more radiation oncology departments to fulfill an admission requirement for this program. The program director recommends that an applicant observe in two or more oncology departments for a minimum total of 8 hours. You must complete observation forms for each observation and send these forms with your application for admission to this program.

RADIOGRAPHY, ASSOCIATE OF SCIENCE (A.S.) DEGREE

Radiographers and graduates with a B.S. in Medical Imaging Technology use X-rays, sound waves, radio frequencies, and computers to produce photographic images of body structures. These images provide physicians with information vital to the diagnosis and treatment of injuries and illnesses.

Minimum GPA Required to Apply: You can be admitted to this program upon graduation from high school. If you want to attend IU Bloomington, you will need to achieve a cumulative GPA of at least a 2.8 cumulative GPA with at least a 2.5 GPA in all mathematics and science courses. The actual average cumulative GPA for admitted students is considerably higher. Please see your academic advisor for more details. If you were to complete the required math course (college algebra) and English composition in your freshman year, you should apply for admission to the professional program in the fall semester of your freshman year. You would then begin the program in Summer Session II at IUPUI after your freshman year.

Planning Your Fall Course Options

A normal course load for preprofessional students is 14–16 credit hours, depending on the mix of classes. In your individual session during Orientation, your academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

- **English Composition**
ENG-W 131
- **Speech Course**
CMCL-C 121 or CMCL-C 122
- **Medical Terminology**
CLAS-C 209
- **Social and Behavioral Science Course**
Preferably PSY-P 101 but a sociology or anthropology course would also be accepted.
- **Math Course**
MATH-M 025 or higher
- **Additional Courses (for future admission into the medical imaging technology program)**
 - » **Chemistry**
CHEM-C 101
 - » **Physics**
PHYS-P 101 or PHYS-P 201. Talk with your academic advisor first about which physics course you should take.
 - » **Humanities Course**
Course offered in one of these academic areas: African American and African Diaspora studies, American studies, art history, classical studies, communication and culture, English literature, folklore, foreign languages and cultures, gender studies, history, journalism, Latino studies, music, philosophy, religious studies.

Shadowing and Observation

You will want to strongly consider doing an onsite observation in a hospital radiology program before you

apply for admission to this program. You must complete a Pre-Interview Questionnaire and send this form with your application when applying.

RESPIRATORY THERAPY, BACHELOR OF SCIENCE (B.S.) DEGREE

Respiratory therapists evaluate and treat patients with cardiopulmonary disorders, and participate in health promotion/disease prevention. They care for all types of patients, from premature infants to the very old; practice in many settings, ranging from patients' homes to critical care units; and utilize a range of diagnostic procedures, from the physical exam to the use of sophisticated equipment. Learned skills include administration of inhaled medications and maintaining critically ill patients on ventilators. Other skills and characteristics important to this profession include the ability to adapt to new technology, critical thinking/problem-solving, patience, empathy, and the ability to work with a team of care givers.

Minimum GPA required to apply: 2.5 cumulative GPA, and a minimum grade of C (not C-) in all math and science courses. *Admission is competitive.* Based upon recent successful applicants, you will likely need to earn a 3.0–3.2 or higher cumulative GPA in order to be competitive for admission. This cumulative GPA range can change from one year to the next, however, and does not guarantee admission.

Because the respiratory therapy prerequisites take two years to complete, and there is very little room for elective credits, you will need to plan your courses carefully. At the same time, due to the timing of certain courses, and the advantages of avoiding the overlap of science labs in the same semester (which we do recommend you avoid if possible), it is not uncommon for pre-respiratory therapy students to take some classes over the summer. Doing so can also have the effect of giving you a bit more leeway during fall and spring semesters.

Planning Your Fall Course Options

A normal course load for preprofessional students is 14–16 credit hours, depending on the mix of classes. For the upcoming semester, if course availability permits, take 14–16 credits from the list below, as there is little room for elective credits among the respiratory therapy prerequisites. In your individual session during Orientation, your academic advisor will help you double-check your options for appropriate courses and plan an appropriate course load.

Respiratory Therapy Prerequisites

First-year courses vary, but can include:

- **English Composition**

ENG-W 131

- **Oral Communication**
CMCL-C 121 or CMCL-C 122
- **Ethics**
PHIL-P 140 or REL-R 170 (REL-R 373 or another upper-level ethics course may be appropriate for some transfer students.)
- **Lifespan Development**
HPER-F 150 or EDUC-P 314 (P 314 is a freshman-level class; PSY-P 315 may be appropriate for some transfer students.)
- **Social and Behavioral Science (S & B) Elective**
Most any sociology or anthropology course is fine. List at least four 100 or 200-level SOC and ANTH courses on your Academic Planning Worksheet (APW). (If you already have credit for PSY-P 101, P 102 would fulfill your S & B elective if you so choose).
- **Computer Science and Technology**
CSCI-A 110 and BUS-K 201 are the two most common choices. Both have lab sections, so plan to devote a fair amount of time to either course outside of class. Your Orientation academic advisor can offer additional options if you like.
- **Two Mathematics Courses (4-6 credits total)**
Consult with your Orientation academic advisor about your math placement. The respiratory therapy program expects applicants to complete *two different kinds of math* prior to entering the program. The program will accept 100-level courses such as MATH-M 118 and M 119; they *will* accept 0-level courses such as MATH-M 026 and M 025 (M 014 is *not* acceptable, although some students take it as preparation for subsequent math courses). MATH-M 211 fulfills the entire math requirement. Your advisor will help you assess which course is best for you.
- **Chemistry (with lab)**
CHEM-C 101 and C121, C 103, or C 117 (5 credits total each)
- **Human Anatomy**
ANAT-A 215 (5 credits). ANAT-A 215 has limited seating and may not be available during later Orientation sessions. If so, you could waitlist it. (We urge you to follow the anatomy study tips at <http://hpplc.indiana.edu/ohp/AnatomyStudyTips.shtml>.)
- **Human Physiology**

PHSL-P 215 (5 credits). Note that PHSL-P 215 is most appropriate if you have previously taken some anatomy and/or physiology in high school or college. P 215 has limited seating and may not be available during Orientation. If so, setting up a waitlist might be feasible.

- **Microbiology (lecture only)**
BIOL-M 200 (*offered spring only*)

- **Elective Courses**

You may have some room for elective credit depending upon your situation. The following courses are suggested elective options, but are *not required*: CLAS-C 209 (2 credits), HPER-H 160, HPER-H 220, HPER-H 263, HPER-H 320. List at least 12–15 additional *3 credit* courses that interest you on your APW.