



INDIANA UNIVERSITY

University Division Guide

BLOOMINGTON CAMPUS

UD GUIDE

2008–2009

Greetings from University Division!

Congratulations on your admission to Indiana University Bloomington! As you prepare to come to campus for orientation, use the *UD Guide* and the accompanying *Course Descriptions* booklet to prepare for your individual advising conference. The *UD Guide* provides information about all of the undergraduate programs available here, as well as important academic information for your first semester and beyond. The *Course Descriptions* booklet provides descriptions of courses appropriate to beginning students that will be offered on the Bloomington campus in the fall semester. Use these materials and bring them to campus with you in the fall.

- Before your individual advising conference, you must complete the Academic Planning Worksheet (APW) on pages 19–20 of this booklet. This will be a simple exercise if you complete the following steps:
- Read pages 4–18 of the *UD Guide*. The information on these pages is important and relevant to every student.
- Read pages 21–72 of the *UD Guide* to learn about the wide variety of academic programs offered at IUB. List the programs that are most interesting to you on your APW.
- Consult the chart on pages 14–18 of the *UD Guide* for help identifying courses that are good introductions to the programs that interest you.
- Browse the accompanying *Course Descriptions* booklet and note courses that interest you on your APW. Also note courses recommended in the *UD Guide* for the majors you are considering.
- Complete your APW on pages 19–20 and keep note of all the questions and concerns you wish to discuss with an academic advisor when you get to campus.

Bring your completed APW, your *UD Guide* and your *Course Descriptions* with you to orientation.

We look forward to meeting you!

Indiana University Bulletin

UNIVERSITY DIVISION GUIDE

Academic Planning & Majors 2008-2009

Bloomington Campus

While every effort is made to provide accurate and current information, Indiana University reserves the right to change without notice statements in the Bulletin series concerning rules, policies, fees, curricula, courses, or other matters. If you would like to request the *UD Guide* 2008-09 in an alternative format, please contact University Division to make this request.

Indiana University is an Affirmative Action/Equal Opportunity institution. Students who may need disability support services should visit the Office of Disability Services for Students Web site at www.indiana.edu/~iubdss or phone (812) 855-7578.

Dear New Indiana University Student

Congratulations! You're attending one of the great universities in the United States. You're bright and accomplished, or you wouldn't be here. Please be wise enough to take advantage of a resource that few universities as large as IU offer: a professional advisor who knows the campus from Ballantine to Briscoe, who is readily available in your hall of residence, who knows the curricula you'll encounter, who knows the full range of academic and extracurricular opportunities available to you—and who, best of all, knows you.

One piece of advice that your advisor will no doubt give you bears repeating here. Too many students, I fear, think of their college as a place that they are, in effect, renting for a few years. Don't fall prey to this form of consumerism. Instead, take a service-learning course or two; join a club; engage a faculty member in a conversation; study abroad, or at least take pains to spend time with and learn from one of our thousands of international students. In short, don't assume that all your learning will take place in the classroom, and don't merely pass through the university. Don't be at Indiana University Bloomington; be in the university and Bloomington.

If there is any way that I can be of service to you, don't hesitate to drop by and see me in Maxwell Hall 100.

Sincerely,

Raymond Smith
Director, University Division
Indiana University Bloomington



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BRING YOUR *UD GUIDE* WITH YOU TO YOUR ADVISING CONFERENCE

Part I—Preparing for Advising & Registration— Questions & Answers

College is a time when you will face new challenges, opportunities, and choices. To help you with this, academic advising is a scheduled part of your orientation experience. It is to your benefit to arrive at the advising session prepared for a thoughtful discussion. This booklet is designed to help you prepare for your orientation advising experience.

Academic advisors can help you make a successful adjustment to academic life at the university. They will discuss your interests and options, answer your questions, consider your placement and test information, and explain admission and degree requirements. Advisors can also make recommendations that will help you develop a schedule that reflects your individual needs and interests. Your preparation for and participation in your advising session is essential because you will make the final choices regarding your enrollment and you will be responsible for these choices.

HOW DOES ACADEMIC PLANNING AT IUB DIFFER FROM PLANNING IN HIGH SCHOOL?

There are many differences between high school and college:

In high school, your guidance counselor probably arranged most of your classes for you. At Indiana University Bloomington, academic advisors will provide you with the information you need to make informed choices, but it will be your responsibility to ask questions and act on the advice you are given.

In high school, you had a limited set of class options available to you. IUB offers hundreds of undergraduate courses each semester. It is up to you to read course descriptions and discuss your options with an academic advisor.

High school courses are often structured around a 36-week academic year. At IUB, the academic year is divided into two 16-week semesters, and courses run for a single semester. You will plan for and enroll in a new set of courses each semester.

In high school, your time was structured by others and you probably spent about 30 hours per week in classes. At IUB, you will manage your own time. You may have hours between classes, and you might spend only 12 to 16 hours each week in class. The amount of study time outside the classroom substantially increases from high school to college. A good rule of thumb at IUB is to plan to study at least two hours per week outside the classroom for each credit hour enrolled. When term papers are due, your reading load is heavy, or the course content is difficult for you, you will need to spend even more time studying.

In high school, you probably started the school day early in the morning and classes ended by mid-afternoon. At IUB, classes are held at all hours, from early morning through the evening.

In high school, your guidance counselor took primary responsibility for keeping you on track to graduate. At IUB, graduation requirements are different for different majors. You are responsible for learning the degree requirements that apply to you and keeping track of your academic progress. Academic advisors at IUB are knowledgeable about academic programs and services on campus. It's important that you do not rely solely on information from friends, family or other students attending IUB. See your advisor.

WHAT WILL ORIENTATION PROGRAM ADVISING BE LIKE?

You will attend two academic advising meetings during your IUB orientation program. These will be scheduled for you by the Office of Orientation Programs.

You are responsible for your enrollment and for keeping track of your academic progress.

First, you will attend a group “pre-advising” meeting led by a professional advisor. This is your opportunity to get more information about your intended major and the advising and registration process at IUB. If you are undecided about your intended major, you will attend a pre-advising meeting with other “exploratory” students. Your questions are welcome during these sessions.

You will also attend an individual advising conference to review your Academic Planning Worksheet (APW) and develop a plan of study for your first semester. You are expected to arrive for your advising appointment with a thoughtfully prepared APW. You will leave with a Course Enrollment Plan (CEP) listing the courses you are interested in taking, with explanations of how these courses will contribute to your progress toward a degree.

After your individual advising conference, you will enroll in classes at a registration site staffed by both registration consultants who can answer technical questions and UD advisors who can assist you should advising questions arise. Your CEP will be your guide as you enroll and for any adjustments you might want to make to your schedule after leaving campus.

HOW SHOULD I PREPARE FOR ADVISING AT ORIENTATION?

It is important that you prepare for academic advising before arriving on campus. Read the following pages carefully and complete as much of the Academic Planning Worksheet (APW) on pages 19–20 as you can before the orientation program begins. You will have an opportunity to ask questions and complete your APW during the group advising session. Be sure to bring your *UD Guide* and *Course Descriptions* booklets with you to both group advising and your individual advising appointment during orientation.

WHICH PLACEMENT TESTS WILL I BE REQUIRED TO TAKE DURING ORIENTATION?

You will be required to take both a math assessment and a foreign language placement test during your orientation program. This testing will be scheduled for you by the Office of Orientation Programs. Your scores on these tests will be available at your individual advising conference.

MATHEMATICAL SKILLS ASSESSMENT (MSA)

The MSA is a 30-minute general-purpose assessment consisting of 26 multiple-choice questions. You cannot earn credit based on your MSA score.

The MSA will measure your algebra skills and readiness for specific IUB math courses.

Your MSA score will neither appear on your grade transcript nor count as part of any grade. MSA results are advisory only. You will make the final decision about what math courses you will take.

To prepare for the MSA, review the sample problems on pages 77–78 before you come to your orientation program. Bring a #2 pencil to use for the MSA. Calculators are prohibited.

FOREIGN LANGUAGE PLACEMENT TESTS AND CREDIT

If you have studied one or more years of foreign language in high school, you will be required to take a foreign language placement test during your IUB orientation.

Testing opportunities will be available in French, German, Italian, Japanese, Latin, Russian, and Spanish during your orientation program. You may be able to earn special credit depending on the results of your placement test and the language in which you test.

Let your advisor know if you are interested in taking more than one foreign language placement test or testing in a language not listed above.

Even if you are not currently planning to continue foreign language study, you must take a foreign language placement test.

If you plan to continue studying the language you took in high school, your advisor will help you determine your placement level based on your test score and will discuss any special credit you may be able to claim.

Even if you have already taken another foreign language test such as the AP or CEEB Achievement test, you are still required to test at IUB to validate your placement.

If you are an international student whose native language is not English, you are not eligible for special credit in your native language. If testing is available in your native language, however, you may be able to use your placement to complete or partially complete the foreign language requirement for some degree programs.

WHICH PLACEMENT TESTS ARE OPTIONAL DURING ORIENTATION?

Read the following information carefully so you are prepared to request appropriate placement testing during your orientation experience.

BIOLOGY DEPARTMENTAL EXAM

The Biology Departmental Exam is optional and is designed for students with a significant background in biology. This exam is intended for students who have completed at least two years of biology in high school.

This exam is not required for placement purposes.

Even if you took the AP test you may take this exam, and IUB will accept the better of the two scores. If you pass the Biology Exemption Exam you will get credit for BIOL-L 111 and/or L 112. Read about these courses in your *Course Descriptions* booklet.

Even if you have the option of obtaining credit on the basis of your performance on this exam or AP tests, you are allowed to enroll in these courses and may wish to do so if you are preparing for medical school or another health profession program. Some medical schools and health professions programs will not accept AP or credit-by-examination towards admission requirements, and college-level coursework is preferable for preparation for admissions exams such as the Medical College Admissions Test (MCAT).

If you miss the Biology Departmental Exam during orientation, you can take it on Wednesday of the first week of the semester if you sign-up in Jordan Hall 115 in the week before the exam is scheduled. Check your Welcome Week schedule for details.

CALCULUS ADVANCED PLACEMENT TEST

The Calculus Advanced Placement Test is optional and is designed for students who have already studied calculus and plan to continue. If you have successfully completed a strong, one-year high school calculus course, plan to take this test during your orientation experience. If you score well on the Calculus Advanced Placement Test, you can move ahead in mathematics without needless duplication of work. Read the course descriptions for MATH-M 212, MATH-M 213 and MATH-S 212 in your *Course Descriptions* booklet.

To prepare for the Advanced Calculus Placement Test, review material from your high school calculus course(s) and the sample problems on page 78. Bring a #2 pencil to use when taking the exam. Calculators are prohibited.

Students earning a score of 17, 18 or 19 out of 24 on the Calculus Advanced Placement Test are eligible to take MATH-M 213 and are awarded credit for MATH-M 211 if they earn an A or B in MATH-M 213.

Credit for MATH-M 211 with a grade of S is automatically awarded to students who earn a score of at least 20 out of 24 on the Calculus Advanced Placement Exam.

CHEMISTRY PLACEMENT EXAM (CPE)

You must take the Chemistry Placement Exam (CPE) if you plan to enroll in CHEM-C 117.

Take the CPE online *before* you arrive for your orientation experience.

A link to the CPE and more information about this exam is available at <http://chem.indiana.edu/academics/ugrad/cpe.asp>. You may take this exam only once each semester.

Your score on the CPE will be made available to your orientation advisor. During your advising session, he/she will use your CPE score and your SAT or ACT math score to determine your eligibility to enroll in various Chemistry courses. On the basis of your scores, you will be advised into one of: CHEM-C 103, CHEM-C 117, or CHEM-S 117. Read about these courses in your *Course Descriptions* booklet.

ARE THERE OTHER PLACEMENT/EXEMPTION TESTS I SHOULD KNOW ABOUT?

If you have a background that you think might allow you to “test out” of college courses in chemistry, music theory, or political science, read the following information carefully. The following tests are offered during Welcome Week, and the first weeks of the fall term, not during the orientation program.

CHEM-C 101/121 EXEMPTION EXAM

CHEM-C101/C121 are elementary chemistry courses for “non-science” majors. To be eligible to take this exemption exam, you must have completed one year of chemistry and at least one year of algebra in high school.

The exam can be taken only once. It is a one hour exam and students may use a calculator. The exam will include questions on the following subjects: nomenclature, structure of matter, gas laws, atomic structure, bonding, chemical calculations, solutions, and the properties of acids, bases, and salts. Bring your ID and arrive 15-20 minutes before the test is scheduled to begin.

The CHEM-C 101/C 121 exemption exam is offered only once every semester. Check the website <http://www.chem.indiana.edu/academics/ugrad/cpe.asp> or call the Department of Chemistry Undergraduate Office at (812) 855-2700 to determine the next scheduled date/time/location of this exam.

For full-time students, a score of 42–60 on this exam will earn 5 cr. with a grade of “S”.

Note: these eligibility criteria for taking the exam and score cutoffs for earning credit are subject to change. Contact the Department of Chemistry Undergraduate Office for the most up-to-date information.

CHEM-C 117 EXEMPTION EXAM

CHEM-C 117 is the general chemistry “science major” course. To be eligible to take this exemption exam, you must have 1) completed two years of high school chemistry and 2) earned one of the following scores: 650 on the Chemistry ATP Achievement Test, 600 on the math SAT, or 27 on the math ACT.

This exam can be taken only once. It is a two hour exam and students may use a calculator. The exam covers most of the topics found in a first semester general chemistry course, including states of matter, stoichiometry, thermochemistry, atomic structure and periodicity, molecular structure, intermolecular forces, solutions, descriptive chemistry, and laboratory work. Bring your ID.

Check the website <http://www.chem.indiana.edu/academics/ugrad/cpe.asp> or call the Department of Chemistry Undergraduate Office at (812) 855-2700 to determine the next scheduled date/time/location of this exam.

For full-time students, a score of 64–72 out of 81 will earn 5 cr. with a grade of “S” and a score of 73 or higher out of 81 will earn 5 cr. with a grade of “A”.

Warning: While earning credit for C117 by exemption exam will meet the requirement for CHEM-C 117, it does NOT provide the same background as C117. If you have special credit, either by AP or by exemption exam, you should consider taking CHEM-C117 or honors S 117 or C 106/C 126 at another IU campus before taking CHEM-C 341 Organic Chemistry I.

BASIC MUSICIANSHIP TEST (BMT)

The Basic Musicianship Test (BMT) is used as a diagnostic tool by the Jacobs School of Music. You will not earn credit from this test, but if you are planning to study music theory it can exempt you from MUS-T 109. The BMT consists of 50 questions on a fundamental level which cover both the pitch and rhythmic components of music. The questions are divided into two sections: aural and written.

The BMT is given several times throughout the year, including during orientation week before each semester. Go to: <http://www.music.indiana.edu/department/theory/ofc/bmt.shtml> for more information including dates/time/locations.

You do not need to sign-up to take this test and you may repeat it once if you do not pass it the first time.

MUS-E 241 EXEMPTION EXAM

If you have advanced skills in music, you may take the opportunity to “test out” of MUS-E 241. If you wish to take the exam without registering for the class, you should consult the Schedule of Classes and plan on attending the first meeting of any section listed in order to receive information regarding the place, time, and specific requirements of this exam.

POLITICAL SCIENCE

If you think there is any likelihood that you can “test out” of POLS-Y 103, you will want to consider taking the departmental exam for this course. Talk with your orientation advisor about this option.

OTHER DEPARTMENTAL EXAMS

Consult the Welcome Week materials you will receive for more information on departmental exemption/placement exams.

WHAT IF I ALREADY HAVE SOME COLLEGE CREDITS?

AP CREDITS

If you took AP tests, read the AP Program Test Information on page 75–76 of this booklet. Also note the specific AP tests you have taken on your APW. This is information your academic advisor needs to know.

If you have taken AP tests but have not yet received your scores, your academic advisor will discuss your options and make recommendations as to how you should proceed.

COLLEGE CREDIT EARNED IN HIGH SCHOOL

If you took courses for college credit (including ACP credits) while in high school, note these courses on your APW. This is information your academic advisor needs to know.

TRANSFER CREDITS

Information about transferring credit to IUB from non-IU institutions can be found at: http://www.indiana.edu/~iuadmit/transfer/tc_credit.shtml.

If you are transferring credits to IUB from another college or university, note the courses you are transferring on your APW, and be prepared to discuss this during your advising session. Information about coursework you have or intend to transfer to IUB is information your academic advisor needs to know.

If you think you have completed any degree requirements through coursework you have not yet transferred to IUB, indicate this on your APW and ask your academic advisor how best to proceed.

WHAT ARE MY OPTIONS FOR A MAJOR?

There are many academic majors available at IUB. Although some freshmen start out knowing their intended major, many are exploring and confirming their interests.

Review the complete list of undergraduate majors on pages 12–13 and circle any majors of potential interest to you.

Then, read in more detail about individual majors on pages 21–72.

Find specific courses that match majors of interest to you on pages 14–17. You can actively explore one or more majors that interest you by enrolling in courses from this list.

List the majors that interest you on your Academic Planning Worksheet (APW).

Let your interests guide you, especially if you are an exploratory student. During your individual advising conference, your advisor can help you identify majors that could be a good fit for you based on your interests, skills, and goals.

If you are considering a career in dentistry, law, medicine, pharmacy, occupational therapy, physical therapy, optometry, or veterinary medicine, make sure you review the entry on pre-professional studies, pages 66–69.

WHAT COURSES SHOULD I CONSIDER TAKING IN MY FIRST SEMESTER?

Consider a wide range of courses that you might want or need to take during your first year at IUB. During your individual advising conference, you will be planning primarily for one semester of course work. It will be useful, however, to consider courses you will need during your first year as a college student. In many instances it will not matter which semester you take a course. For example, a course such as ENG-W 131 Elementary Composition may be taken during your first or second semester.

Listing as many courses as possible on your Academic Planning Worksheet (APW) will give you more options when you register for classes and more flexibility in choosing the days and times of your classes. If you are uncertain about how a particular course will count for you, list the course anywhere on your APW and ask your academic advisor about it during your advising session.

ENGLISH COMPOSITION

All schools at IUB have an English composition requirement. Students are encouraged to complete this requirement by the end of the first year. The skills developed in composition are important for success in many other courses and fulfillment of the requirement is necessary for admission to most academic programs.

There are several ways to fulfill the English composition requirement:

Complete an equivalent course in high school or on another college campus: If you think you have already completed coursework that will fulfill the composition requirement, note this on your APW. You will want to verify this with your advisor during your orientation program advising session.

Exemption without credit: If you earned one of the following test scores, you have fulfilled the English composition requirement without credit:

- a. SAT Critical Reading score of 670 or higher; or
- b. ACT English score of 32 or higher; or
- c. AP Program English: Composition and Literature score of 4 or 5; or
- d. AP Program English: Language and Composition score of 4 or 5.

If you believe you are exempt without credit, mark YES in the appropriate box on the APW.

Exemption with credit: If you earned one of the above test scores and you scored 660 or higher on the SAT: Writing Test, you are exempt from the English composition requirement and are eligible to apply for 2 credit hours in English W143 with a grade of S (satisfactory).

If you believe you are exempt with credit, mark YES in the appropriate box on the APW.

One semester course in composition: Review the course descriptions for the one-semester options below and note one or both of these courses on your APW.

ENG-W 131 Elementary Composition

ENG-W 170 Projects in Reading and Writing

Completion of either course, with at least the minimum grade required by your intended major, fulfills the composition requirement.

Two semesters of designated courses in writing and reading: Review the descriptions for the courses below. If you are interested in fulfilling your composition requirement with a literature option, note your preferred courses on your APW.

ENG-L 141 (Fall) Intro to Writing and the Study of Literature I

ENG-L 142 (Spring) Intro to Writing and the Study of Literature II

AAAD-A 141 (Fall) Intro to Writing and the Study of Black Literature I

AAAD-A 142 (Spring) Intro to Writing and the Study of Black Literature II

CMLT-C 145 Major Characters in Literature (Fall)

CMLT-C 146 Major Themes in Literature (Spring)

You may “mix and match” the two-semester course options. For example, the following combinations of courses could be used: AAAD-A 141 first semester and CMLT-C 146 second semester; or CMLT-C 145 first semester and ENG-L 142 second semester.

Completion of any combination of two literature course options, with at least the minimum grade required by your intended major, fulfills the composition requirement for most majors. In addition, you will earn six arts and humanities or elective credits by completing a two semester composition sequence.

MATH

Almost all students will need one or more mathematics courses to fulfill degree requirements. Consider taking a math course during your first semester while the mathematical skills you developed in high school are still fresh.

Review the information related to the schools and majors of interest to you on pages 21–72 and the math course descriptions in your *Course Descriptions* booklet before writing your course choice(s) on your APW.

During your individual advising conference, your academic advisor will discuss your results on the Mathematical Skills Assessment and make a placement recommendation based on your MSA score, high school math background, standardized test scores and intended major.

MAJOR COURSES

Most degree programs require a group of courses referred to as the major, concentration, or core. These courses provide you with an opportunity to study a particular subject matter in depth. Read about the major(s) you are considering on pages 21–72 for recommendations on courses to take during your first year and list these on your APW.

GENERAL EDUCATION COURSES

All majors require that you take a certain number of general education courses. These courses are usually divided into several broad categories. The following categories are commonly used, but some degree programs at IUB use slightly different terminology.

Arts and Humanities (A&H) courses teach students to understand human values, emotions, and thought, and to be open to diversity of expression. Examples: English, fine arts, philosophy, religious studies.

Social and Historical Studies (S&H) courses provide an objective understanding of social institutions, historical contexts, and human behavior. Examples: history, political science, sociology.

Natural and Mathematical Sciences (N&M) courses explore, through scientific inquiry, our environment in the physical and biological world. Examples: biology, chemistry, geology, mathematics.

Browse the *Course Descriptions* booklet to find courses in the above categories that interest you. List at least 15 general education classes on your APW.

SKILL DEVELOPMENT COURSES

Many majors require or recommend courses that help you develop computer, foreign language or oral communication skills. Think, too, about the personal and professional skills you would like to develop while in college. Read in your *Course Descriptions* booklet to find courses that will help you develop useful skills. Note the skill development courses you are interested in taking on your APW.

ELECTIVES

Electives are courses that do not fulfill any particular requirement for your degree but count in the total credits you need for graduation. Different majors classify different courses as electives and some majors allow a very limited number of electives to count toward graduation. Take elective courses to satisfy your own personal interests, enhance your major, and develop additional skills. List courses you are interested in taking as electives on your APW.



Students relax between classes at Ballantine Hall

Majors, Minors and Certificate Programs

- Accounting—BUS p. 39
 African American and African Diaspora studies—COLL² p. 23
 African American and African Diaspora studies/English—COLL³
 African American and African Diaspora studies/History—COLL³
 African American and African Diaspora studies/Religious studies—COLL³
 African American and African Diaspora studies/Sociology—COLL³
 African languages (minor only)—COLL
 African studies (certificate only)—COLL p. 23
 American Humanics (certificate only)—SPEA
 American studies—COLL² p. 23, 24
 Animal behavior (certificate and minor program only)—COLL
 Anthropology—COLL² p. 24
 Apparel merchandising—COLL² p. 24
 Aquatics (minor only)—HPER
 Arts management—SPEA² p. 62, 64
 Astronomy and astrophysics—COLL² p. 24, 25
 Athletic training (Nonteaching)—HPER p. 48
 Athletic training (Teacher preparation)—HPER p. 48
 Audio recording arts—MUS¹ pp. 57, 58, 59
 Audiology and hearing—COLL p. 37
- Ballet—MUS p. 58
 Biochemistry—COLL p. 25, 26
 Biology—COLL² p. 25
 Biotechnology—COLL p. 25
 Business—Economic consulting track—BUS p. 39
 Business—Public policy analysis track—BUS p. 39
 Business foundations (certificate only)—BUS
 Business (minor)—BUS
- Central Eurasian studies (certificate only)—COLL p. 25
 Chemistry—COLL² p. 25, 26
 Choral teaching—MUS p. 57
 Classical civilization—COLL² p. 26
 Classical studies (Latin and Greek)—COLL² p. 26
 Clinical laboratory science—MED⁴ p. 75
 Coaching (minor only)—HPER
 Cognitive science—COLL² p. 26
 Communication and culture—COLL² p. 26, 27
 Comparative arts (minor only)—COLL
 Comparative literature—COLL² p. 27
 Composition—MUS p. 57
 Computer science B.A.—COLL² p. 27
 Computer science B.S.—INFO² p. 53
 Creative writing—COLL² p. 28
 Criminal justice—COLL² p. 27
 Cultures of science and medicine (certificate only)—COLL
 Cytotechnology—MED⁴ p. 71
- Dance—HPER² p. 48, 49
 Dental hygiene—DENT^{4,5} p. 69, 70
 Dietetics—HPER p. 46
 Dutch studies (minor only)—COLL
- Early music—Instrument—MUS p. 57
 Early music—Voice—MUS p. 57
 East Asian languages and cultures (Chinese, Japanese, and Korean)—COLL² p. 27, 28
 East Asian studies—COLL² p. 27, 28
 Economic Consulting—BUS p. 39
 Economics—COLL² p. 28
 Economics/Mathematics—COLL³ p. 28
 Economics/Political science—COLL^{2,3} p. 28
 Ecotourism (minor only)—HPER
 Education—All-grade (grades K–12)—EDUC p. 44, 45
 Education—Early childhood education—EDUC p. 43
 Education—Elementary (grades 1–6)—EDUC p. 44
 Education—Middle school, junior high, or high school (grades 6–12)—EDUC p. 44, 45
 Education—Special Education/Secondary—EDUC p. 44
 Education—Teaching All Learners (special education/elementary)—EDUC p. 44
 English—COLL² p. 28
 English/African American and African Diaspora studies—COLL³
 Entrepreneurship—BUS² p. 39
 Environmental management—SPEA² p. 62, 63
 Environmental science—COLL and SPEA p. 28, p. 62, 64
 Environmental science and health (minor only)—SPEA
 Environmental studies (certificate only)—SPEA
 European Union studies (minor only)—COLL
 Exercise science—HPER² p. 49
- Fashion design (certificate only)—COLL
 Finance—BUS p. 39
 Finance/Public—SPEA
 Finance/Real estate—BUS p. 39
 Fitness instruction (minor only)—HPER
 Fitness specialist—HPER p. 49
 Folklore—COLL² p. 29
 French—COLL² p. 29
 Fundraising and resource development (minor only)—HPER
- Game studies (certificate only)—COLL
 Gender studies—COLL² p. 29
 General Music Teaching—MUS
 General studies (bachelor's degree)—SCS p. 42
 General studies (associate degree)—SCS p. 42
 Geography—COLL² p. 29, 30
 Geological sciences—COLL² p. 30
 Germanic studies (German)—COLL² p. 30
 Gerontology (minor only)—HPER
 Global human diversity (certificate only)—COLL
 Greek (minor only)—COLL
 Guitar (Classical)—MUS p. 57
- Health administration—SPEA² p. 62, 63, 64
 Health education—Secondary teacher preparation—HPER p. 46
 Hebrew (minor only)—COLL
 History—COLL² p. 30
 History/African American and African Diaspora studies—COLL³
 History and philosophy of science—COLL (certificate and minor only) p. 30, 31
 History of art—COLL² p. 28, 29
 Human biology—COLL² p. 31
 Human development and family studies—HPER² p. 47
 Human resources (minor only)—SPEA
 Human sexuality (minor only)—HPER
- India studies—COLL² p. 31
 Individualized Major Program—COLL p. 31
 Informatics—INFO² p. 52, 53
 Security informatics (minor)—INFO
 Information and process management—BUS p. 39
 Information systems (minor only)—SPEA
 Information technology (minor only)—INFO
 Instrumental teaching—Band—MUS p. 57

¹ Associate degree is also offered.

² A minor and/or certificate is also available in the program.

³ Interdepartmental major.

⁴ Students may take prerequisite courses at IUB but must complete this degree on another IU campus.

⁵ Associate degree only.

- Instrumental teaching—Strings—MUS p. 57
 Interior design—COLL p. 24
 International business (second major only)—BUS p. 39
 International studies—COLL² p. 31, 32
 Italian—COLL² p. 32
- Jazz studies—MUS p. 57
 Jewish studies—COLL² p. 32, 33
 Journalism—JOUR³ p. 54, 55
- Kinesiology (minor only)—HPER
- Labor studies—SWK
 Latin (minor only)—COLL
 Latin American and Caribbean studies—COLL (certificate and minor only)
 Latino studies (minor only)—COLL
 Leadership (minor only)—HPER
 Leadership, ethics, and social action (minor only)—COLL p. 33
 Legal studies—BUS p. 39
 Legal studies—SPEA² p. 62, 63
 Liberal arts and management (certificate only)—COLL p. 33
 Linguistics—COLL² p. 33, 34
 Linguistics/Speech and hearing sciences—COLL³
- Management—BUS p. 40
 Management—SPEA² p. 62, 63
 Marketing—BUS² p. 40
 Martial arts (certificate only)—HPER
 Mathematics—COLL² p. 34
 Mathematics/Economics—COLL³ p. 34
 Medical imaging technology—MED⁴ p. 71
 Medieval studies (certificate and minor only)—COLL
 Microbiology—COLL p. 25
 Music—MUS² p. 57
 Music and an outside field—MUS p. 57
 Musical theatre—COLL p. 38
- Near Eastern languages and cultures (Arabic, Persian, Islamic studies, Near Eastern civilization)—COLL² p. 34
 Neuroscience—COLL² p. 36
 New media and interactive storytelling (certificate only)—COLL
 Norwegian (minor only)—COLL
 Nuclear medicine technology—MED⁴ p. 72
 Nursing—NURS p. 60, 61
 Nutrition Science (minor only)—HPER² p. 47
- Optometric technology—OPT⁵ p. 61
 Orchestral instrument (any) performance—MUS
 Organ—MUS p. 57
 Outdoor recreation and resource management—HPER² p. 51
- Paramedic science—MED^{4,5} p. 72
 Philosophy—COLL² p. 34, 35
 Philosophy/Political science—COLL³ p. 34, 35
 Philosophy/Religious studies—COLL³ p. 34, 35
 Physical education teacher education (All-grade)—HPER p. 49
 Physics—COLL² p. 35
 Piano—MUS p. 57
 Policy analysis—SPEA² p. 62, 63
 Political science—COLL² p. 35
 Political science/Economics—COLL^{2,3} p. 35
 Political science/Philosophy—COLL³ p. 35
 Portuguese—COLL² p. 37
 Production/Operations management—BUS p. 40
 Psychology—COLL² p. 35, 36
 Psychology/Speech and hearing sciences—COLL³
 Public affairs—SPEA² p. 63
 Public affairs/health administration (11 different minors)—SPEA
 Public and environmental affairs (minor)—SPEA
- Public and nonprofit management—SPEA p. 62, 63
 Public and nonprofit recreation management—HPER p. 51
 Public and professional writing—COLL
 Public financial management—SPEA² p. 62, 63
 Public health—SPEA² p. 63, 64
 Public health—HPER² p. 47
 Public policy analysis—BUS p. 40
- Radiation therapy—MED⁴ p. 72
 Radiography—MED^{4,5} p. 72
 Real estate: see Finance
 Recording arts—MUS p. 58, 59
 Recreation and park administration (minor)—HPER
 Recreational sport management—HPER² p. 51
 Religious studies—COLL² p. 36
 Religious studies/African American and African Diaspora studies—COLL³ p. 36
 Religious studies/Philosophy—COLL³ p. 36
 Respiratory therapy—MED⁴ p. 72
 Russian—COLL p. 36, 37
 Russian and East European studies (minor only)—COLL
- Safety management (associate degree, certificate, and minor only)—HPER p. 47
 Safety science—HPER p. 47
 Slavic languages and literatures—COLL² p. 36, 37
 Social science and medicine (minor only)—COLL
 Social work—SWK p. 65
 Sociology—COLL² p. 37
 Sociology/African American and African Diaspora studies—COLL³
 Sociology of work and business (minor only)—COLL
 Spanish—COLL² p. 37
 Speech and hearing sciences—COLL² p. 37
 Speech and hearing sciences/Linguistics—COLL³
 Speech and hearing sciences/Psychology—COLL³
 Speech language pathology—COLL p. 37
 Sport communication (broadcast emphasis)—HPER p. 49, 50
 Sport communication (print emphasis)—HPER p. 49, 50
 Sport marketing and management—HPER² p. 50
 Statistics—COLL p. 37, 38
 String instrument technology—MUS⁵ p. 59
 Studio art—COLL² p. 28, 29
 Supply Chain Management—BUS p. 40
- Technology management (second major only)—BUS p. 40
 Telecommunications—COLL² p. 38
 Theatre and drama—COLL² p. 38
 Therapeutic recreation—HPER p. 51
 Tourism management—HPER² p. 51
- Underwater Resource Management—HPER (certificate only)
 Urban studies (certificate)—COLL
 Urban studies (certificate)—SPEA
- Voice—MUS p. 57
- West European studies (minor only)—COLL p. 38
 Woodwind—multiple instruments—MUS p. 57
- Yiddish studies (minor only)—COLL
 Youth sport management (minor only)—HPER

¹ Associate degree is also offered.

² A minor and/or certificate is also available in the program.

³ Interdepartmental major.

⁴ Students may take prerequisite courses at IUB but must complete this degree on another IU campus.

⁵ Associate degree only.

Chart for Exploratory Students

Area of study	First course(s) if you are exploring a major, or intend to major in this area	First course(s) if you are interested, but do not intend to major in this area
COLLEGE OF ARTS AND SCIENCES		
African American and African Diaspora Studies	A 141, A 142, A 150,	A 100, A 110, A 120, A 141, A 142, A 150, A 154, A 156, A 197, A 198, A 199, A 201, A 203, A 210, A 221, A 249, A 250, A 264, A 265, A 278, A 290, A 298, A 299
African Studies	No major	L 231, L 232
American Studies	A 100, A 200, A 350, A 351, A 450	A 100, A 201, A 202
Anthropology	B 200, E 200, E 260, L 200, P 200, P 240	A 105, A 200, A 205, A 208, E 101, E 105, E 260, P 240
Apparel Merchandising	H 100, H 209	H 100, H 209
Astronomy and Astrophysics	A 221 (See astronomy department advisor.)	A 100, A 102, A 103, A 105, A 115
Audiology and Hearing Science (See also Speech and Language Pathology)	S 110, S 111	S 110
Biology	L 111	L 100, L 104
Biotechnology	L 112	L 100, L 104
Central Eurasian Studies	No major; minor available in two programs (with or without language and area certificate).	COLL-E 103 (Great Wall of China), COLL-E 104 (Mongol Conquest), U 190, U 254, U 284
Chemistry/Biochemistry	C 117 (C 103 recommended if enrollment criteria for C 117 not met.)	C 100, C 101/C 121, C 102/C 122, or C 117 if qualified.
Classical Studies: Classical Civilization Greek Latin	C 101, C 102, C 205, C 206 G 100 (Fall only) Placement-level course	C 101, C 102, C 205, C 206 G 100 (See advisor.) Placement-level course
Cognitive Science	Q 240, Q 250	Q 240
Communication and Culture	C 190, C 205	C 121, C 122, C 201, C 202, C 203, C 204, C 208, C 223, C 225, C 228, C 229, C 290, C292
Comparative Literature	C 145-C 146, C 205, or any other elective at the 100 or 200 levels.	C 145-C 146, or any other elective at the 100 or 200 levels.
Computer Science B.A.	C 211, H 211	A 110, A 111, A 112, A 113, A 114, A 201
Criminal Justice	P 100, P 200	P 100, P 200
East Asian Languages and Cultures	Placement-level language course	Placement language course or 100-200-level E courses
East Asian Studies	Placement-level language course or 200-level E course	Placement language course or 100-200-level E courses
Economics	E 201	E 201
English	L 202 (usually not taken in first semester freshman year); or any English elective at the 200 level	L 141-L 142, L 203, L 204, L 205, L 206, L 207, W 103
Fine Arts: History of Art	A 101, A 102	H 100, any 200-level course
Fine Arts: Studio Art	A 101, A 102, A 160, F 100, F 101, F 102	F 100, F 101, F 102, N 110, N 130, N 198
Folklore and Ethnomusicology	F 101, F 111, F 131 (Limit: two courses at 100 level)	F 101, F 111, F 112, F 121, F 131

Note: The first course for a major may not need to be taken during the first year. Some departments recommend a prior general survey course that may not count in the required credit hours for the major. You should always see your academic advisor for degree requirements and/or course selection assistance before registering for any course.

Area of study	First course(s) if you are exploring a major, or intend to major in this area	First course(s) if you are interested, but do not intend to major in this area
COLLEGE OF ARTS AND SCIENCES, Continued		
French	Placement-level language course	Placement-level language course; Culture: F 125, F 126
Gender Studies	G 101	G 101, G 102, or G 105
Geography	G 107 or G 109, G 110 or G 120	G 107, G 109, G 110, G 120, G 208
Geological Sciences	G 111, G 112	G 103, G 104, G 105, G 114, G 121, G 131, G 141, G 171
Germanic Studies: Dutch	Minor only; placement-level course	Placement-level course; Culture: N 350, N 450
Germanic Studies: German	Placement-level course	Placement-level course
Germanic Studies: Norwegian	Minor only; K 100	K 100; Literature: E 363
Germanic Studies: Yiddish	Minor only; Y 100	Y 100; Culture: Y 300, Y 350
History	D 101, G 101, H 101, H 102, H 103, H 104, H 105, H 106, W 100 (See advisor about additional options.)	D 101, G 101, H 101, H 102, H 103, H 104, H 105, H 106, W 100 (See advisor about additional options.)
History and Philosophy of Science	Certificate only; X 102	X 100, X 102, X 110, X 123, X 126, X 200, X 220, X 223, X 226
Human Biology	B 101, B 102	MSCI-M 131
India Studies	I 310	I 310
Interior Design	H 168 (See advisor.)	H 191
Italian	Placement-level language course	Placement-level language course; Culture: M 222, M 235, M 333, M 334, M 345, M 391
International Studies	I 100 (See advisor about others.)	I 100
Jewish Studies	Modern Hebrew or Yiddish: JSTU-H 100 or placement-level modern Hebrew or GER-Y 100; History: HIST-H 251, HIST-H 252. Religious studies: REL-R 245. COLL-E 103/E 104 (approved topics).	R 210, REL-R 245, HIST-B 200 History of Jerusalem, HIST-H 251, H 252; COLL-E 104 (Approved topic), JSTU-C 240
Latino Studies	L 101, L 102	L 101, L 102
Linguistics	L 103, L 210, L 303, L 306, L 315, L 367	L 103, L 111, L 112, L 113, L 114, L 210, L303, L 315
Mathematics	M 211 (M 212, S 212, or M 213 with advanced placement)	M 014, M 018, M 025, M 026, M 027, M 118, S 118, A 118, M 119, M 211 (depending upon Mathematical Skills Assessment Test and advising conference)
Microbiology	L 112	L 100, L 104 (Check topics.)
Near Eastern Languages and Cultures: Arabic Hebrew Persian Turkish	See advisor about culture courses. A 100 or higher level JSTU-H 100 or higher level P 100 or higher level CEUS-U 161 or higher level	200 and 300 level Culture courses (See advisor.) A 100 or higher level JSTU-H 100 or higher level P 100 or higher level CEUS-U 161 or higher level
Philosophy	P 100, P 135, P 140, P 270, or any Topics course taught by philosophy faculty.	P 100, P 105, P 135, P 140, P 150, P 240, or any Topics course taught by philosophy faculty.
Physics	P 221, P 222 (Consider honors sections.)	P 101, P 105, P 108/P 109 (concurrent with P 105), P 110, P 114, P 120, P 150, P 201

Note: The first course for a major may not need to be taken during the first year. Some departments recommend a prior general survey course that may not count in the required credit hours for the major. You should always see your academic advisor for degree requirements and/or course selection assistance before registering for any course.

Area of study	First course(s) if you are exploring a major, or intend to major in this area	First course(s) if you are interested, but do not intend to major in this area
COLLEGE OF ARTS AND SCIENCES, Continued		
Political Science	1 or 2 from: Y 103, Y 105, Y 107, Y 109, Y 200, Y 202, Y 205, Y 211, Y 249, Y 281	Y 100, Y 102, Y 103, Y 105, Y 107, Y 109, Y 200, Y 202, Y 211, Y 249, Y 281
Portuguese	Placement-level language course	Placement-level language course
Psychological and Brain Sciences	P 155	P 101 (If, after taking P 101, you decide to major in psychology, you may take P 102.)
Religious Studies	R 102, R 133, R 152, R 153, R 160, R 170, R 204, R 220, R 245, R 247, R 250, R 255, R 257, R 264, R 275, R 280, H 201 (Only one 100-level course may be counted toward the major.)	R 102, R 103, R 152, R 153, R 160, R 170, R 220, R 245, R 250, R 257, R 275
Slavic Languages and Literatures	Placement-level language course	Placement-level language course
Croatian	Placement-level language course; S 363-S 364, R 353	Placement-level language course; Culture/literature: S 363-S 364, R 353
Czech	Placement-level language course; C 363-C 364, C 365, R 353	Placement-level language course; Culture/literature: S 363-S 364, R 353
Macedonian		Placement-level language course
Polish	Placement-level language course; P 363-P 364, R 353	Placement-level language course; Culture/literature: P 363-P 364, P 365, R 353
Romanian	Placement-level language course; R 353	Placement-level language course; Culture/literature: R 353
Russian	Placement-level language course; R 223, R 263, R 264	Placement-level language course; Culture: R 223; Literature: R 123, R 263, R 264; Cinema: R 352
Serbian	Placement-level language course; S 363-S 364, R 353	Placement-level language course; Culture/literature: S 363-S 364, R 353
Ukrainian		Placement-level language course
Sociology	S 100 and one from S 101, S 105, S 110, S 201, S 210, S 215, S 217, S 220, S 230	S 100, S 101, S 105, S 110, S 201, S 210, S 215, S 217, S 220, S 230
Spanish	Placement-level language course	Placement-level language course
Speech Language Pathology (see also Audiology)	S 110, S 111	S 110
Statistics	MATH-M 211 and 212, STAT-S 320	S 100
Telecommunications	T 101, T 205, T 206, T 207 (all required)	T 101, T 160, T 191, T 192
Theatre and Drama	T 100, T 101, T 121, T 125	T 100, T 101, T 120, T 125
BUSINESS	A 100, K 201, either X 100 or G 100 (both optional electives), X 104	G 100 or X 100, L 100, A 200, K 201, W 211
EDUCATION	F 205 (second-semester freshmen)	F 200, F 205
HEALTH, PHYSICAL EDUCATION, AND RECREATION		
Applied Health Science Dietetics	CHEM-C 117 or C 103 (fall term advised); N 231 (spring term advised)	N 220 (spring term advised)
Safety Management (A.S.)	S 101 (fall only), S 151 (spring only)	S 101 (fall only), S 151 (spring only)

Note: The first course for a major may not need to be taken during the first year. Some departments recommend a prior general survey course that may not count in the required credit hours for the major. You should always see your academic advisor for degree requirements and/or course selection assistance before registering for any course.

Area of study	First course(s) if you are exploring a major, or intend to major in this area	First course(s) if you are interested, but do not intend to major in this area
HEALTH, PHYSICAL EDUCATION, AND RECREATION, Continued		
Human Dev. and Family Studies	F 150, F 255, F 258	F 150, F 258
Nutrition Science	CHEM-C 117 or C 103 (fall term advised); N 231 (spring term advised)	N 220 (spring term advised)
Safety Science	S 101 (fall only), S151 (spring only), H 160, H 174	S 101 (fall only), S 151 (spring only), H 160
Public Health Education	H 263 (See advisor about others.)	F 255, H 263
Health Education—Secondary Teacher Preparation	F 255, H 160, H 174, H 180, H 205, H 263	F 255, H 160, H 180, H 263
Kinesiology		
Athletic Training	H 160, P 212, P 280	P 212, P 280
Dance	D 111, D 121, E 255, P 212	D 111, E 155, E 152, E 255
Exercise Science	H 160, E 119, P 212, P 280	E 119, P 212
Fitness Specialist	H 160, P 105, P 212, P 216, P 280	P 105, P 212, P 216
Physical Education Teacher Preparation (PETE)	P 140/P 141, P 205, P 216, P 219, P 224, P 280	P 140/P 141, P 280
Sport Communication	P 211, P 212, P 213	P 211, P 212, P 213
Sport Marketing and Management	P 211, P 212	P 211
Recreation		
All majors	R 160, R 231, R 272	R 160
INFORMATICS		
Informatics	I 101	I 101
Computer Science B.S.	C 211, H 211	A 110, A 111, A 112, A 113, A 114, A 201
JOURNALISM	J 110, J 155, J 200, J 210	C 201, J 110, J 155, J 200, J 210
LABOR STUDIES	L 100, L 101, L 110, L 230 (spring)	L 100, L 110, L 290
MUSIC	T 109 or exemption; T 151; P 110, P 120 or P 130; E 131 (if B.M.E.); private performance study (Z 110)	J 100, J 210, T 109, Z 101, Z 103, Z 111, Z 201, Z 393, X 001; private performance study (Z 110)
PUBLIC AND ENVIRONMENTAL AFFAIRS		
Public Affairs	E 162, E 272 (required for environmental management majors), V 160, V 161, V 220, V 241	E 162, V 160, V 161, V 220, V 241, V 263
Public Health	H 316, H 320, V 160	H 316, H 320, V 160
Arts Management	A 163	A 163
Environmental Science (B.S.E.S.)	Appropriate science course, GEOG-G 107, G 108; GEOL-G 105, G 171; SPEA-E 262, E 272	GEOG-G 107, G 108; GEOL-G 105, G 171; SPEA-E 262, E 272
SOCIAL WORK	S 100, S 141 (R: English composition)	S 100, S 141 (R: English composition)

Note: The first course for a major may not need to be taken during the first year. Some departments recommend a prior general survey course that may not count in the required credit hours for the major. You should always see your academic advisor for degree requirements and/or course selection assistance before registering for any course.

Completing the Academic Planning Worksheet (APW)—Directions

Read pages 4–11 of this booklet before attempting to complete the following Academic Planning Worksheet (APW).

HOW DO I COMPLETE THE ACADEMIC PLANNING WORKSHEET (APW)?

1. Complete each section of the APW.
2. Write “completed” on the lines for any requirements you think you have fulfilled by testing or through college credits earned previously. Do not list a course unless you want or need to take an additional course in the area.
3. List more courses than you will actually take during the first semester to provide flexibility as you discuss your academic plans with your advisor.
4. List courses that interest you in addition to courses you need to take.

DEPARTMENTAL/SCHOOL/COURSE PREFIXES

To determine which department or school offers the courses you are considering, refer to the list of departmental/course prefixes below. Knowing these will also help you locate courses in the *Course Descriptions* booklet.

African American and African Diaspora Studies	AAAD	Foster International Center	FLLC	Mathematics	MATH
African Studies	AFRI	French	FRIT	Medical Sciences	MSCI
American Studies	AMST	Gender Studies	GNDR	Music	MUS
Anatomy	ANAT	Geography	GEOG	Near Eastern Languages and Cultures	NELC
Anthropology	ANTH	Geological Sciences	GEOL	Optician/Technician	TOPT
Apparel Merchandising and Interior Design	AMID	Germanic Studies	GER	Philosophy	PHIL
Arts and Sciences Career Services	ASCS	Global Village Living-Learning Center	GLLC	Physics	PHYS
Astronomy and Astrophysics	AST	Health, Physical Education, and Recreation (all majors)	HPER	Physiology	PHSL
Biology	BIOL	History	HIST	Political Science	POLS
Business (all majors)	BUS	History and Philosophy of Science	HPSC	Portuguese	HISP
Central Eurasian Studies	CEUS	Honors College	HON	Psychological and Brain Sciences	PSY
Chemistry	CHEM	Human Biology	HUBI	Public and Environmental Affairs	SPEA
Classical Studies	CLAS	India Studies	INST	Religious Studies	REL
Cognitive Science	COGS	Informatics	INFO	ROTC Military Science	MIL
College of Arts and Sciences Topics	COLL	International Studies	INTL	Aerospace Studies	AERO
Collins Living-Learning Center	CLLC	Italian	FRIT	Second Language Studies	SLST
Communication and Culture	CMCL	Jewish Studies	JSTU	Slavic Languages/Literatures	SLAV
Comparative Literature	CMLT	Journalism	JOUR	Social Work	SWK
Computer Science	CSCI	Labor Studies	LSTU	Sociology	SOC
Criminal Justice	CJUS	Latin American and Caribbean Studies	LTAM	Spanish	HISP
East Asian Languages and Cultures	EALC	Latino Studies	LATS	Speech and Hearing Sciences	SPHS
Economics	ECON	Leadership, Ethics, and Social Action	LESA	Statistics	STAT
Education	EDUC	Liberal Arts and Management Program	LAMP	Student Academic Center	EDUC
English	ENG	Library & Information Science	SLIS	Telecommunications	TEL
Fine Arts	FINA	Linguistics	LING	Theatre and Drama	THTR
Folklore and Ethnomusicology	FOLK			Traditions and Cultures at Indiana University	COLL
				West European Studies	WEUR

Academic Planning Worksheet (APW)

You must complete this form before meeting with an advisor.

Name _____ ID Number _____
 (Please print: Last First Middle Initial)

Preferred first name or nickname _____

I. DO YOU HAVE ANY COLLEGE CREDIT?

Mark (X) below if you have received (or will receive) college credit in any of the following ways:

____ While in high school ____ From another IU campus ____ From another college or university

Are you currently enrolled in any college courses? ____ Yes ____ No

How many total college credit hours will you have completed by the time IUB classes begin? _____

Have you taken any exams for college placement or credit, e.g., Advanced Placement, SAT II Subject Tests, or International Baccalaureate exams? ____ Yes ____ No

If yes, which exam(s)? _____

Have you registered for a Freshman Interest Group (FIG) or an Intensive Freshman Seminar (IFS)?

____ Yes ____ No

If yes, list FIG courses or seminar class: _____

II. MAJOR (See pp. 12–13.)

Mark (X) next to the statement below that applies to you; then list your major interest(s) on the lines provided:

I have chosen a major. List this major on line 1.
 List additional majors that interest you on lines 2 and 3. It may be possible for you to earn a double major or minor.

1. _____
 2. _____

I am exploratory (considering several majors).
 List two or three majors that interest you.

3. _____

III. ENGLISH COMPOSITION (See pp. 9–10)

Have you completed this requirement?

____ Yes ____ No

If yes, go to box IV.

If no, list composition courses of interest.

Department	Course Number	Course Title
ex: ENG	W 131	Elementary Composition
1.		
2.		
3.		

TEAR HERE

IV. MATHEMATICS (See p. 10) List the introductory mathematics course(s) required for the major(s) you are considering and/or any other mathematics course(s) you are interested in taking.	Department	Course Number	Course Title
	1.		
	2.		

V. SCHOOL, MAJOR, AND GENERAL EDUCATION COURSES (See p. 11)

List 18 additional courses that interest you. Refer to the "Freshman Year Course Work" section(s) for the school(s)/major(s) you are considering.

Department	Course Number	Course Title	Department	Course Number	Course Title
1.			10.		
2.			11.		
3.			12.		
4.			13.		
5.			14.		
6.			15.		
7.			16.		
8.			17.		
9.			18.		

VI. ELECTIVES (See p. 11) List additional courses that you are interested in taking as electives.	1.		
	2.		
	3.		

List questions for your advisor here.

TEAR HERE

Part II—Schools and Majors

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)

See pp. 9–10 for options.

■ 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 pp. 6–10 in the *Course Descriptions* booklet.

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 AND 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 23–72) 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)
 Apparel merchandising (AMID)
 Astronomy and astrophysics (AST)
 Audiology and hearing (SPHS)
 Biochemistry (CHEM)
 Biology (BIOL)
 Biotechnology (BIOL)
 Central Eurasian studies (certificate 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)
 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)

¹ B.A. and minor only; other programs are in the School of Informatics. See p. 57.

Philosophy (PHIL)
 Philosophy/Political science
 Philosophy/Religious studies
 Physics (PHYS)
 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 arts, literatures and writings, film, folklore, histories, 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, 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 Web site, 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)

The American Studies Program offers a Bachelor of Arts degree, which sets the United States—its cultures, social dynamics, and histories—in a hemispheric “pan-American” context and prepares students for the complexities of life in the globalizing United States and for the challenges of national citizenship in an increasingly interconnected world. The program/s prepare 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 and from pertinent joint-listed and cross-listed course offerings in other programs, departments, and units. Foreign language: Students pursuing a B.A. in American studies must demonstrate advanced language competency in a single foreign language—equivalent to a third year of study. 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. 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, organized by geographical areas and interpretive themes.

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 apparel merchandising and interior design (AMID)

B.S. degree program provides two options. The apparel merchandising option prepares the student for a variety of career positions in business, such as retail store manager, buyer, and product developer. The interior design curriculum emphasizes research and analysis in preparing students to integrate the client's spatial, functional, technical, regulatory, and aesthetic goals. Career opportunities are available in firms focused on commercial and residential interior design, architecture, and manufacturing.

Apparel merchandising majors must complete a total of 32 AMID credits, including AMID-H 100, H 203, H 204 or H 207, H 209, and others. They must also complete selected courses outside AMID, including ECON-E 201 and E 202; SOC-S 100; PSY-P 101; CSCI-A 110 or BUS-K 201; and other upper-level business courses. Students should complete AMID-H 100, H 203, and H 209 as early as possible.

Recommended courses for the first year for students considering an apparel merchandising major: AMID-H 100, H 209, SOC-S 100, PSY-P 101, one year of foreign language.

Interior design majors must complete a total of 42 AMID credit hours, including AMID H 168, H 271, H 272, H 277, and others; plus selected courses outside AMID, including FINA-A 102; and any two of the three FINA fundamental studio courses F 100, F 101, or F 102.

Recommended first-year courses for an interior design major: AMID-H 168 and H 191; at least one course from FINA-F 100, F 101, F 102, or FINA-A 102; one year of foreign language; total of five distribution courses.

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. The degree program prepares 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 on the rooftop of Swain Hall, 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 science more—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/academics/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 113 (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 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 multi-disciplinary 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 Asian (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 undergraduate minor with certificate and language and area studies also requires 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 the CEUS classes must be taken at the Bloomington campus and six credit hours must be above the 100 level.

Undergraduates are encouraged to explore Central Eurasia via two College Topics classes (COLL-E 103 Great Wall of China and COLL-E 104 Mongol Conquest) or the following CEUS classes: U 190 Introduction to Inner Asia; U 254 Introduction to the Ancient Near East and Central Asia; U 284 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 equivalent proficiency).

Greek: CLAS-G 100 (fall only) and G 150 (spring only) (or equivalent proficiency).

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).

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 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. Freshmen should also take two courses in foreign language or literature in their first year because the comparative literature major requires at least one 300-level literature course in a foreign language.

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 (see p. 52). 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 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 and P 200.

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 “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).

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 or ENG-L 141-L 142 are two particularly appropriate avenues 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, which majors usually take in their sophomore year, can be taken by well-prepared freshmen in their second semester. 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.

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.

“Folk” can refer to any group of people who share a common interest. As a form of communication, folklore is created when people interact with one another. “Lore” represents the knowledge and artistry of a group in forms such as stories and jokes, art, architecture, music, dance custom, belief, ritual, and festival.

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: F101, F 111, or F 131.

French (FRIT)

A major in French 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 civilization. Majors may give special emphasis to any one of these areas, or combine all of them in a more balanced program.

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 the junior year should consider foreign study with the IU Overseas Study programs in Aix-en-Provence or Paris. Interested students should begin to consider this option during the freshman year to arrange their schedule 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 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. Courses are in atmospheric science, environmental studies, geographic information science (GIS), human geography, and sustainable systems. 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.

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 degree in geological sciences may elect either a B.A. or B.S. degree option. The B.S. degree provides a broad and solid science platform for professional employment or advanced study. The B.A. degree provides more program flexibility than the B.S. and preserves the broad liberal arts education. Therefore, it allows students to complete a double major (for example, with anthropology or economics) for those wishing to use geology in a wide variety of careers in business, industry, government, and teaching. In addition to a broad general education, the B.A. degree with additional science and mathematics courses (or the B.S. degree) provides an adequate background for advanced study and greater possibilities for employment.

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.

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) medicine and health; 2) science writing, literature, and literacy; 3) science, technology, and the environment; 4) science, computation, and information; 5) science and pseudoscience. Students interested in the certificate should begin with the core course, HPSC-X 102.

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 studying human biology explore the social, cultural, and ethical consequences of biological issues to gain an appreciation for the complexity of humanity. Students work collaboratively in a problem-based curriculum and are 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 Web site for more information: www.indiana.edu/~humbio.

Recommended first-year courses for a major: HUBI-B 101 and HUBI-B 102; 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)

Formal requirements for admission to the Individualized Major Program (IMP) are the same as those for the College of Arts and Sciences, except that the IMP requires a minimum cumulative GPA of 2.5. Students who do not meet this requirement but who can present persuasive evidence in their favor may request permission from the IMP director to formally present a case to the IMP admission committee, which makes the final decision on admission.

The IMP enables independent, highly motivated students who have well-developed interests to pursue a Bachelor of Arts (B.A.) degree in the College of Arts and Sciences through a course of study that, while meeting all College requirements and conforming to general university standards of breadth and rigor, is tailored to individual interests and goals. IMP students, working closely with their faculty sponsors, pursue interests that cut across usual departmental and disciplinary boundaries.

Examples of recent majors include medical illustration, arts management, film/video production, fashion design, paleobiology, environmental studies, screenwriting, Latin American culture, photography, multimedia studies, public relations, and animal psychology.

The Individualized Major Program is administered by a faculty committee that is responsible for granting admission to the program, for reviewing student programs under way, for evaluating a thesis or project, and for the final oral review.

Students wishing detailed information concerning the IMP should consult with the assistant director at Ballantine Hall 129, (812) 855-9588.

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 thematic concentrations (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 and CMCL-C 202; FINA-A 290; GNDR-G 225), Global Environment (INTL-I 202, GEOG-G 208, REL-R 236), Global Markets and Governance (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)

A wide variety of language, literature, and culture courses in Italian are open to University Division students. Freshmen may begin their language study with FRIT-M 100-M 150; those students with previous work in Italian may place into courses above this level. Students may also choose Italian courses on such topics as the Italian cinema, Italian literature in translation, and various aspects of Italian culture to fulfill culture studies requirements.

A major in Italian or a 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 undergraduate advisor in the Department of French and Italian as soon as possible in their academic studies. Study abroad through the IU overseas study programs in Bologna or at the summer campus in 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-M 115, or FRIT-M 100 and M 150 or 3–6 credits 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 either a major or an area certificate and/or a Hebrew minor in Jewish studies. Students interested in Jewish studies should see the Jewish studies advisor during the freshman year. Call (812) 855-0453.

Note: The area certificate is particularly appropriate for students in the Kelley School of Business who can fulfill the Arts and Social Services or Global Studies and Languages Field Specialization by completing the area certificate. Music students may complete the area certificate along with a Bachelor of Music or complete a B.S. in music with Jewish studies as an outside field. Students planning to major in Jewish studies or in the Jacobs School of Music should contact Professor Judah Cohen (cohenjm@indiana.edu). Students in the School of Journalism can complete their second concentration by completing the requirements for the Jewish studies major or area certificate.

Students interested in a career in Jewish education should pursue the major in Jewish studies. Jewish studies majors are encouraged to pursue a second major.

The major requires at least two semesters of modern Hebrew, biblical Hebrew, or Yiddish; REL-R 245 Introduction to Judaism or HIST-H 251 Introduction to Jewish History: From the Bible to the Spanish Expulsion (fall); HIST-H 252 Introduction to Jewish History: From the Spanish Expulsion to the Present (spring); four courses in one of the following three areas: a) language and literature, b) history and society, c) religion and thought; and two additional courses outside a student's area of specialization (listed above).

The area certificate, more significant than a minor, requires eight courses from the three major areas of Jewish studies. There is no minor in Jewish studies, but there is a minor in Hebrew.

Recommended first-year courses for a major: Modern Hebrew (fall) JSTU-H 100/H 200/H 300 and (spring) JSTU-H 150/H 250/H 350/H (level depends upon language placement exam) or Yiddish (fall) GER-Y 100 and (spring) GER-Y 150; HIST-H 251 (fall) or REL-R 245 (spring), HIST-H 252 (spring), COLL-E 103 The Bible and Its Interpreters, or COLL-E 104 Power, Politics, and Piety:

The Struggle for the Holy Land in Israel/Palestine (fall) or What Makes it Jewish (spring) (fall).

For more information, see the Web: www.indiana.edu/~jsp/Freshman.htm.

Leadership, Ethics, and Social Action Program (LESA)

Do you want to make a difference in the world? Find out what civic skills can do for your education and future. With an interdisciplinary minor in leadership, ethics, and social action through the College of Arts and Sciences, you can explore the concept of leadership through the lens of community action and can acquire practical political skills that will be of enormous value to you. You can deepen your academic curriculum in any field as you develop your career and citizenship skills.

There are five components to this 16 credit minor: the foundations course, the ethics requirement, the social organizations requirement, a civic engagement seminar, and the capstone seminar and project. The foundations course, LESA-L 105 Beyond the Sample Gates, satisfies the Topics requirement for the College and distributes as a Social and Historical (S&H) general education course. This course offers a chance to contribute to the community and to reflect upon your own motivations and the structures of society.

Choose from courses in various departments and from different perspectives for the ethics requirement (PHIL-P 140 Introduction to Ethics; POLS-Y 105 Introduction to Political Theory; REL-R 170 Religion, Ethics, and Public Life) and the social organizations requirement (ANTH-E 105 Culture and Society; SOC-S 215 Social Change; SOC-S 217 Social Inequality).

The capstone seminar and project involve a semester of planning and a semester of carrying out an individual project designed in consultation with a faculty mentor and a community partner. Speak with the LESA advisor about sequencing.

Explore this program by taking the foundations course, LESA-L 105, in your first year. Consult with the LESA advisor early in your degree for more information. The program is housed in the Department of Political Science, Woodburn 210, (812) 855-6308 or lesa@indiana.edu. More details are available on the Web site: www.indiana.edu/~lesa.

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 advised to take the freshman seminar, LAMP-S 104 Looking for Home in Global Times. In the freshman year, students are encouraged (but not required) to take ECON-E 201 and E 202 and BUS-A 100 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 Web site 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 111, L 112, L 113, L 114, L 210, L 303, 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 offers a B.A. and two kinds of B.S. degrees. Within the B.A. program, it is possible for a student to have a double major with an additional liberal arts area. Graduates with a B.A. degree pursue a wide variety of career opportunities, including business, industry, education, and government; they also earn advanced professional degrees such as medicine, business, and law. The B.S. degree provides more extensive training in mathematics and is often earned by students interested in pursuing graduate degrees in mathematics (Program I) or in related areas such as astronomy, chemistry, computer science, economics, geology, physics, or psychology (Program II).

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.

INTERDEPARTMENTAL MAJOR IN MATHEMATICS AND ECONOMICS

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

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, religious studies, and other areas.

The department also offers an undergraduate minor. Students can choose to minor in Arabic, Hebrew, 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-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-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 Science (POLS)

Are you interested in American politics? 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? 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, and international relations.

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 majors in psychology leading to the B.A. or B.S. degree and provides 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. (B.S. majors should not take COLL-E 105 unless the topic is Neural Basis of Human Behavior.)

The department also now offers a B.S. degree in neuroscience. It 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 or 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 Web site: 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 123 Russian Short Fiction (fall and spring), SLAV-R 223 Introduction to Russian Culture (fall and spring), SLAV-R 263 Russian Literature from Pushkin

to Dostoevsky (fall), SLAV-R 264 Russian Literature from Tolstoy to Solzhenitsyn (spring)

For Croatian and Serbian: SLAV-S 223 Introduction to Balkan and South Slavic Cultures, SLAV-S 363-S 364 Literature and Culture of the Southern Slavs I-II (fall, spring), SLAV-R 353 Central European Cinema (fall)

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 (fall)

For Polish: SLAV-P 363-P 364 Survey of Polish Literature and Culture I-II (fall, spring), SLAV-P 365 Topics in Polish Literature and Culture, SLAV-R 353 Central European Cinema (fall)

Sociology (SOC)

Sociology is the study of the social structures and social forces that influence human behavior. Sociologists look beyond individual and unique events to the patterns in people's attitudes and activities and how these patterns vary across time, cultures, and social groups.

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.

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 Topics qualified requirement 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, and the Internet. 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. 54. If interested in Sport Communication, see HPER, p. 49.

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 Web site 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/degrees.

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

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

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

This 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

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. The three highest grades of these courses will be used to compute the admission GPA, which is one of the factors used when considering a student's admission.
- complete 26 credit hours of college course work that counts toward graduation
- meet the standard of the Kelley School of Business for academic good standing
- 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 July 10 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. The committee evaluates the following academic factors for each applicant: 1) cumulative GPA; 2) application semester GPA; and 3) admission course GPA. 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 pp. 9–10)

■ 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 is awarded for any of these courses toward graduation.

■ 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 and two options for fulfilling the requirement:

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

Arts and Humanities

Social and Historical Studies (excluding economics 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

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 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 220/230 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 prior learning.

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 Continuing Studies, Owen Hall 202, 790 E. Kirkwood Avenue, 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)

See pp. 9–10 for options.

■ QUANTITATIVE REASONING COURSE(S)

Students must demonstrate competency in quantitative reasoning through course work or exemption.

Choose from MATH-A 025, M 025, M 026, M 027, A 118, M 118 (D 116-D 117 if eligible), M 119, and M 211.

Check with your advisor for non-math courses that fulfill the quantitative reasoning requirement.

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, 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 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, and SPEA-V 261. See 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.

■ 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. 45)

Special Education/Secondary through COT (grades 6–12)

All-Grade Education (grades K–12) in Visual Arts

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 secondary program (HPER)

Chinese secondary program (College of Arts and Sciences)

Japanese secondary program (College of Arts and Sciences)

Music all-grade education (Jacobs School of Music)

Physical education all-grade education (HPER)

Theatre secondary program (College of Arts and Sciences)



School of Education, Wright Education Building

ADMISSION REQUIREMENTS

Students must complete prerequisite courses; obtain passing scores on the PRAXIS I; meet content, professional education, and area of concentration requirements with a C or higher grade for each course; maintain a minimum 2.5 program and university GPA; and apply to be admitted to the Teacher Education Program. See advisor for details.

FRESHMAN YEAR COURSE WORK

Early Childhood Education

During the freshman year students interested in Kindergarten-Primary and Early Childhood Education usually complete the following:

■ ENGLISH COMPOSITION COURSE(S)

ENG-W 131 or W 170

See advisor for additional options.

■ ORAL EXPRESSION COURSE

CMCL-C 121, CMCL-C 122, CMCL-C 223, or EDUC-G 203

■ SCIENCE AND TECHNOLOGY COURSE(S)

EDUC-W 200 (3 credits) and EDUC-Q 200

See advisor for elective options.

■ ADDITIONAL GENERAL EDUCATION COURSES

Choose from the following requirements:

Literature (one course): AAAD-A 141, A 142; CMLT-C 145, C 146; ENG-L 141, L 142. See your advisor for other options.

Fine Arts: MUS-E 241. See advisor for additional options.

Social Studies (3 credits): HIST-H 101, H 102, H 105, H 106. See advisor for social studies elective options.

Mathematics: MATH-T 101, T 102, T 103. EDUC-N 102, N 103. (T 101 is a prerequisite for T 102 and T 103.) See advisor for additional options.

■ ELECTIVE COURSE(S)

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

Elementary (K–6) and Teaching All Learners: Elementary and Special Education (K–6)

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

■ ENGLISH COMPOSITION COURSE(S)

ENG-W 131 or W 170

See advisor for additional options.

■ INTRODUCTION TO TEACHING

EDUC-F 200

■ ORAL EXPRESSION COURSE

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

See advisor for additional options.

■ MATHEMATICS COURSE(S)

MATH-T 101; EDUC-N 102 or T 102; EDUC-N 103 or T 103

T 101 is a prerequisite for N 102, T 102, N 103, or T 103.

■ COMPUTER COURSE

EDUC-W 200 (3 credits)

■ ADDITIONAL GENERAL EDUCATION COURSES

Choose from the following:

World literature (one course): AAAD-A 141, A 142; CMLT-C 145, C 146; ENG-L 141, L 142, L 202, L 203, L 204, or L 205

Fine Arts: MUS-E 241; FINA-N 110

United States History (one course): HIST-H 105 or H 106 (See your advisor for other options.)

World Civilization (one course): HIST-H 101, H 102, H 103, H 104; GEOG-G 110, G 120

Social studies elective from any of the following (one course): African American and African Diaspora Studies (history only), Anthropology, Criminal Justice, Economics, Gender Studies, Geography (non-physical), History, Political Science, Psychological and Brain Sciences, Religious Studies, Sociology, SPEA (Public and Environmental Affairs)

Science: EDUC-Q 200; GEOL-G 103 or G 104 or G 105

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 COURSES

The number of electives is very limited.

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)

See pp. 9–10 for information about options.

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/ ALL-GRADE EDUCATION

Secondary (Anchor and Community of Teachers Program)

English/Language Arts

Journalism

Languages:

Chinese

French

German

Japanese

Latin

Russian

Spanish

Mathematics

Science:

Chemistry

Earth-space science

Life science—biology

Physical science

Physics

Social Studies—select three subjects:

Economics

Geographical perspectives

Government and citizenship

Historical perspectives

Psychology

Sociology

All-Grade

Visual arts

For music education, see p. 57. For physical education
teacher education, see p. 49.



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 is now composed of 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

Dietetics
Health education—secondary teacher preparation
Human development and family studies
Nutrition science
Public health
Safety science

APPLIED HEALTH SCIENCE ADMISSION REQUIREMENTS

All majors require students to complete 26 credits before admission. The minimum overall entrance GPAs for the majors are as follows: GPA of 2.7 for dietetics; GPA of 2.5 for human development and family studies, nutrition studies, public health, 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

■ MATHEMATICS COURSE

See major description. Choose course from list. Not required for the health—secondary teacher preparation major or for the Associate of Science degree and Certificate in Safety Management.

■ VERBAL COMMUNICATIONS COURSE

CMCL-C 121 (Majors in dietetics may substitute C 223; majors in nutrition science may substitute C 122 or C 223.)

■ COMPUTER COURSE

Choose a course from computer course(s) listed under the individual majors.

Exception: Public health and dietetics majors do not require a computer course; however, students who need computer literacy skills should take a computer course as an elective.

■ GENERAL EDUCATION COURSE

See major descriptions for course recommendations.

■ MAJOR COURSE(S)

See the following major descriptions for course recommendations.

■ ELECTIVE COURSE(S)

See your advisor.

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 2.7 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, SOC-S 100, 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 degree Bachelor of Science in Applied Health Science 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, HPER-H 263, HPER-F 255, HPER-H 174, EDUC-W 200 (1 cr.), EDUC-G 203, any SOC course, a humanities course. (See advisor.)

Human Development and Family Studies Major

This four-year program leads to the degree Bachelor of Science in Applied Health Science 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) 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, EDUC-W 200, a humanities or social and behavioral science course. (See p. 51.)

Nutrition Science Major

This four-year program leads to the degree Bachelor of Science in Applied Health Science 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, PSY-P 101, CSCI-A 110, a social and behavioral science course (see p. 51), HPER-N 231 (spring term advised if chemistry prerequisite met).

Public Health Major

This four-year program leads to the degree Bachelor of Science in Applied Health Science with emphasis in promoting the health of the general public. With this background, students can learn 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-L 100, L 104, or L 112, CHEM-C 101, C 103, or C 117, one math course from MATH-M 118 or MATH-A 118 (or D 116-D 117 if eligible) or M 119. Students may also choose courses from anthropology, economics, human geography, history, political science, psychology, sociology, or health electives.

Safety Science Major

This four-year program leads to the degree Bachelor of Science in Applied Health Science with an emphasis in safety science. 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) or M 119; PSY-P 101; one computer course from HPER-P 200, HPER-R 237, CSCI-A 110, BUS-K 201, EDUC-W 200 (K 201 recommended for students who want a business minor); a social and behavioral science course. (See p. 51.)

Safety Management Programs

CERTIFICATE IN SAFETY MANAGEMENT

This one-year certificate is designed for students interested in safety and hazard control in business and industry. Students may earn this certificate while completing another major at IU or independently.

See your advisor for course recommendations.

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—teaching and nonteaching
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

ENG-W 131 or W 170

■ VERBAL COMMUNICATIONS COURSE

CMCL-C 121 (Sport communication majors may substitute C 122. Both C 121 and C 122 are required for sport marketing and management majors.)

■ MATHEMATICS COURSE

See each major description for course recommendations.

■ COMPUTER COURSE

See each major description for course recommendations.

■ GENERAL EDUCATION

See each major description for course recommendations.

■ MAJOR COURSES

See each major description for course recommendations.

■ ELECTIVE COURSES

See your advisor.

Athletic Training Major

The four- and five-year programs lead to the Bachelor of Science in Kinesiology with a major in athletic training. The five-year program incorporates a teaching degree in physical education combined with the athletic training major. 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 (available in HPER 115); d) current transcripts (transfer students only); e) completion of Technical Standards for Admission to the Athletic Training Program form, available at www.indiana.edu/~kines/under_training.html; f) completion of Athletic Training Observation Experience–Hour Verification and Basic Athletic Training Proficiency Skills Forms A and B, available at www.indiana.edu/~kines/under_training.html; 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.

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.

The five-year program requires admission to the Physical Education Teacher Education Program (PETE). See description of that program (p. 49) for PETE admission requirements.

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.

Teaching option—recommended courses for the first year for students considering a major: HPER-H 160, HPER-P 140-P 141, HPER-P 200, HPER-P 219, HPER-P 224, HPER-P 280, ANAT-A 215, PSY-P 101, courses chosen from humanities or social and behavioral sciences.

Nonteaching option—recommended courses for the first year for students considering a major: HPER-H 160, HPER-P 212, HPER-P 219, HPER-P 224, HPER-P 280, CHEM-C 101/C 121, SOC-S 100, ANAT-A 215, a computer course (HPER-P 200 or CSCI-A 110 or BUS-K 201), a humanities or social and behavioral sciences course. (See p. 51.)

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 year for students considering the major: CMCL-C 121, ENG-W 131, HPER-D 111, HPER-D 121, HPER-E 155 or E 255, MATH-M 118 or M 119, PSY-P 101, SOC-S 100 or S 101.

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, SOC-S 100 or S 101; one computer course from CSCI-A 110, HPER-P 200, BUS-K 201.

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-F 150 or C 354, P 105, P 205, P 212, P 216, P 280; CHEM-C 101/C 121 or C 117; MATH-M 118 or M 119; PSY-P 101; SOC-S 100 or S 101; one computer course from CSCI-A 110, HPER-P 200, BUS-K 201.

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 summer/fall admission and by November 1 for spring admission
 - b. Successful completion of HPER-P 140 and P 141
 - c. Three letters of recommendation
 - d. 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/P 141, P 205, P 216, P 219, P 224, P 280; MATH-M 118 (or option). You may also choose humanities and social behavioral science courses. (See advisor.)

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, MATH-M 118 (D 116-D 117 if eligible) or M 119, SOC-S 100 or S 101, PSY-P 101, humanities courses, one social and behavioral science course, a computer course (CSCI-A 110 or HPER-P 200), JOUR-J 110 (print emphasis) or TEL-T 101 (broadcast emphasis). 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-D 117) 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), but 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, HPER-P 392, MATH-M 118 or M 119, PSY-P 101, SOC-S 100 or alternate, BUS-A 100, BUS-A 201 (P: A 100), humanities course, social and behavioral science course. (See p. 51.) 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
Public and nonprofit 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

Applicants to the department are eligible for consideration under the following conditions:

1. All applicants 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 public and nonprofit 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 Majors

During the freshman year students usually complete the following:

■ **ENGLISH COMPOSITION COURSE**
ENG-W 131

■ **VERBAL COMMUNICATION COURSE**
CMCL-C 121 or C 122

■ **MATHEMATICS COURSE**
Your advisor will help you decide whether you need a mathematics course in order to prepare for the statistics course you will take later.

■ **ADDITIONAL GENERAL EDUCATION COURSES**
Social and behavioral sciences: SOC-S 100, PSY-P 101, PSY-P 102 (P: P 101), and possibly courses from history or political science.

Humanities: One course (See below.)

Life and physical sciences (5 credit hours) (See below.)

■ **MAJOR COURSE**

HPER-R 160

■ **ELECTIVE COURSE(S)**

Electives vary by program. See your advisor.

RECREATION 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.

Public and Nonprofit Recreation Management Major

The public and non-profit recreation management major prepares students for management, supervisory, and leadership positions in public and non-profit settings, which comprise 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.

HUMANITIES, SOCIAL AND BEHAVIORAL SCIENCES, AND LIFE AND PHYSICAL SCIENCES

All HPER majors whose general education requirements allow course work from humanities, social and behavioral sciences, or life and physical sciences may select courses from the following schools, departments, or programs:

Humanities: African American and African Diaspora Studies, American Sign Language, Central Eurasian Studies, Classical Studies, College of Arts and Sciences Topics E 103 courses (credit allowed for only one topic), Communication and Culture, Comparative Literature, East Asian Languages and Cultures, English, Fine Arts, Folklore, French and Italian, Germanic Studies, HPER-R 160 only, India Studies, Jewish Studies, Journalism, Linguistics, Music (no applied courses), Near Eastern Languages and Cultures, Philosophy, Religious Studies, Slavic Languages and Literatures, Spanish and Portuguese, Telecommunications, Theatre and Drama

Social and Behavioral Sciences: Anthropology, College of Arts and Sciences Topics E 104 courses (credit allowed for only one topic), Criminal Justice, Economics, Geography (human and regional), History, Political Science, Psychological and Brain Sciences, Sociology

Life and Physical Sciences: Anatomy and Physiology, Astronomy, Biology, Chemistry, College of Arts and Sciences Topics E 105 courses (credit allowed for only one topic), Computer Science, Geography (physical), Geological Sciences, Mathematics, Physics

Also allowed in "Life and Physical Sciences": HPER-H 263 Personal Health, HPER-P 391 Biomechanics, HPER-P 409 Basic Physiology of Exercise, MATH-J 113 Introduction to College Mathematics III.

School of Informatics (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.

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 33 credit hours of informatics core courses, 6 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.

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 (or alternative; see pp. 9–10) 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
INFO-I 202 (P: I 101) Social Informatics
INFO-I 210 Information Infrastructure (P or concurrent: I 101, recommended for students with a strong computing background)

■ 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)

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 Web (www.informatics.indiana.edu/academics/cognates.asp) or speak to the 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, Web site, 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.

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 department offers many options to suit a variety of needs. The nonmajor courses, labeled “A,” include introductory courses. Five of these courses combine to form the minor in information technology. CSCI-A 110, A 111, and A 201 are the starting points for students with no prior computing experience. For those with basic computer literacy (the material covered in CSCI-A 110 or A 111), CSCI-A 112 provides a simple introduction to programming, CSCI-A 113 covers data analysis, CSCI-A 114 consists of database design, and A 216 is an in-depth look at mixed media hardware and software.

For students interested in pursuing a B.S. in computer science (a B.A. is offered through the College of Arts and Sciences), a suite of six courses, labeled “C,” form the core of the computer science major programs. In addition to those six core courses, students earning a B.S. in computer science must complete seven advanced computer science elective courses. 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.

The starting point for all major programs 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.

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 (or alternative; see pp. 9–10) with a grade of C or higher

■ 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, or natural science courses (see advisor).

■ MAJOR COURSES

CSCI-C 211 and CSCI-C 212 (take CSCI-C 102 before C 211 if needed). See advisor.

■ ELECTIVE(S)

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 Web site (www.journalism.indiana.edu) and select “Academics,” then “Undergraduate Academics” and “Undergraduate Advising.” On that page, see “Fall 2008 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, *Career Matters*, contains information on internships and jobs. 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 May 15, August 20, and December 15.

FRESHMAN YEAR COURSE WORK

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

■ ENGLISH COMPOSITION COURSE(S)

See pp. 9–10 for options.

■ 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 any 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 4th 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 (POL-S-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 *Course Descriptions* booklet for distribution designation of arts and humanities (A&H) and natural and mathematical sciences (N&M) courses.

Visit the Web site (www.journalism.indiana.edu) and select “Academics,” then “Undergraduate Academics” and “Undergraduate Advising” for a list of these courses.

■ 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. 62.

INFORMATION FOR STUDENTS ACCEPTED INTO THE JACOBS SCHOOL OF MUSIC

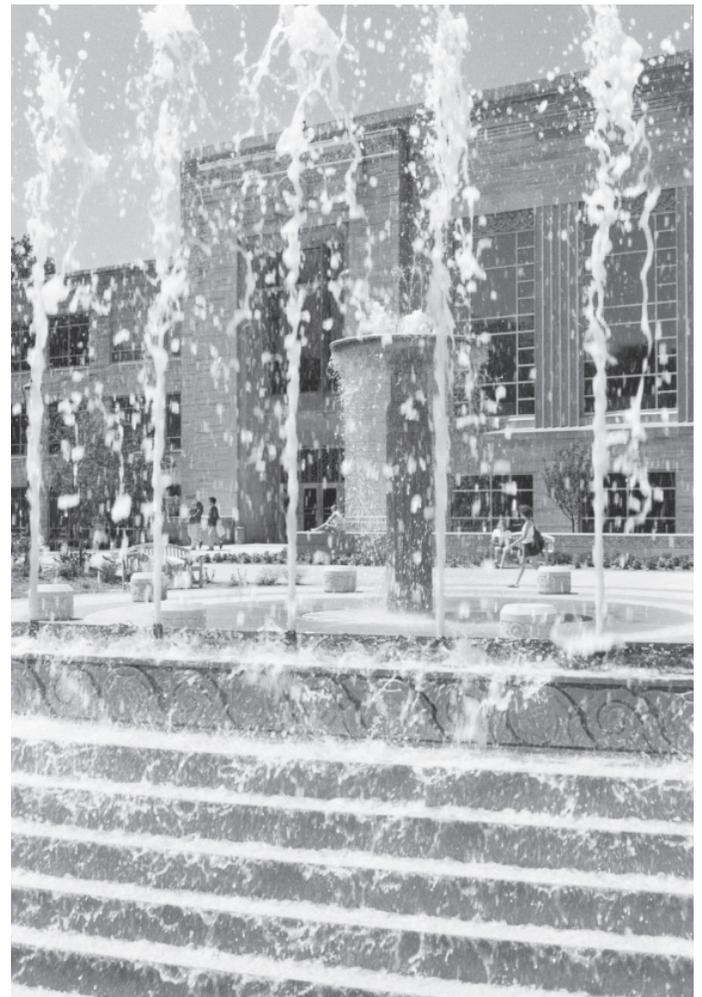
Students accepted into the Jacobs School of Music meet with advisors on a special day during the regular advising and registration program in the summer, or during the

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.



Music Library, North Jordan Avenue

FRESHMAN YEAR COURSE WORK FOR ACCEPTED MUSIC MAJORS

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 pp. 9–10.

■ 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 between 2:30 p.m. and 6:00 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* booklet.

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 and MUS-K 133 Notation and Calligraphy.

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

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

Non-Admitted Music Interest

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 pp. 9–10 for options.

■ 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* booklet 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

■ 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* booklet.

■ MUSIC THEORY

Music theory course selections should match students’ backgrounds:

- If you have an excellent background in music theory, register for MUS-T 151 (3 cr.), the first core music theory course.
- 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.).
- If you have a deficient background in music theory, register for MUS-T 109 (3 cr.).
- 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, Music Annex 283.

■ GENERAL EDUCATION

Choose from courses designated A&H, S&H, or N&M in the *Course Descriptions* booklet.

■ 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/department/audio/admission.shtml.

FRESHMAN YEAR COURSE WORK

Recording Arts

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 pp. 9–10 for options. 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. 58. Some students will need to take MUS-T 109 before or with T 151.

■ AUDIO COURSE

MUS-A 101

■ 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.



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 nursing programs at IUB and at IUPUI have equivalent prerequisites and nursing courses. Students can apply to both programs, listing one as their first choice and the other as their second choice. Incoming freshmen and others interested in the four-year B.S.N. degree programs (all prenursing majors) will find these programs divided into two areas—general education and the nursing core. The general education category is further divided into five distinct “clusters” (critical-analytical-science, communications, social competence, cultural diversity, humanistic appreciation) plus electives. To complete the B.S.N., students normally take one year of general education courses, and once admitted to the School of Nursing, they take three years of nursing core courses along with the remaining general education courses, totaling up to at least 125 credits.

ADMISSION REQUIREMENTS

Admission to the School of Nursing at IU Bloomington and IUPUI (Indianapolis) 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 GPA for admitted students is considerably higher. Criteria other than grades are considered in the application process.

Admission to the School of Nursing is based upon the following criteria:

Cumulative GPA—Minimum of 2.5 required.

Critical-Analytical-Science GPA (30%)—Includes anatomy, finite math, and a 3 credit critical-analytical-science course.

Nursing Application GPA (30%)—29–31 credits must be listed on the application. The courses/credits include anatomy (5 cr.); finite math (3 cr.); additional 3 cr. critical-analytical-science course; English composition (2–3 cr.); introductory psychology (3 cr.); introductory sociology (3 cr.). The remaining credits will be selected by the student from the approved list of cluster courses. This list will be provided during orientation. See “Additional cluster courses” under Freshman Year Coursework.

Note: To be considered for admission, student must have completed two semesters (or one year) of high school chemistry with a grade of C or above in both semesters or a college introductory chemistry course (lecture and discussion only). College chemistry would count as critical-analytical-science cluster credit.

Interview with Faculty, Alumni, and Community Nursing Partners (30%)—20–30-minute interview with eligible applicants.

A written essay (500 words maximum) will also be required as part of the application.

Service Experience (up to 10%)—Service experience can be earned by work experience in health care or service agencies, volunteer experience in health care or service agencies with direct client contact/interaction, completion of prenursing course and service experience (NURS-B 106 at IUB or NURS-B 104 at IUPUI), performance-based programs, or scholarship-based programs.

Investigation of the Profession—The School of Nursing strongly recommends that all prenursing students undertake job shadowing and investigation of the profession.

Note: More detailed information is available in the *2008–2009 Pre-Nursing Handbook*, which is available on the Indiana University School of Nursing's Bloomington Web site, www.indiana.edu/~iubnurse, and as a handout. The Indiana University School of Nursing reserves the right to make changes in these admission criteria. If students have questions about the admission criteria, they should see their assigned advisor or the School of Nursing advisor.

FRESHMAN YEAR COURSE WORK

During the freshman year, students pursuing a major in nursing usually complete the following:

- **ENGLISH COMPOSITION:** Students are strongly encouraged to take ENG-W 131 or ENG-W 170.
- **ANATOMY, PHYSIOLOGY, OR MICROBIOLOGY:** ANAT-A 215 is required. If the course is full, students must waitlist the course in fall and spring. A student who is unable to register for anatomy may use physiology PHSL-P 215 or microbiology (BIOL-M 200 and M 215).
- **FINITE MATH:** MATH-M 118, MATH-A 118 or MATH-D 116 and D 117. (Contact a School of Nursing advisor if you have questions about higher-level math courses that might be used in lieu of finite math.)
- **CRITICAL-ANALYTICAL-SCIENCE:** At least one additional critical-analytical-science course (selected from cluster list)
- **INTRODUCTORY PSYCHOLOGY:** PSY-P 101, PSY-P 102, PSY-P 106, or PSY-P 155.
- **INTRODUCTORY SOCIOLOGY:** SOC-S 100 or SOC-S 101.
- **Additional cluster credits:** Including the above cluster course requirements, students must have a total of 29–31 cluster credit hours on their transcript by the end of freshman year in order to be eligible to apply for sophomore admission to the IUB and/or IUPUI nursing program(s). These application credit hours could

include: a minimum of 3–5 additional critical-analytical-science credits (*see note above regarding the chemistry requirement*), 3 additional communication credits, 3 additional social competence credits, 4–6 cultural diversity credits, or 3 humanistic appreciation credits. AP or placement credit can often be counted among the cluster credits. See your advisor for details. (Note that students will ultimately complete all of the above credit hours, but not all during freshman year.)

NURSING CORE

Only students admitted to the B.S.N. major are eligible to take the 19 courses within the nursing core.

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. 66–70.

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
E-mail: 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.”

Curriculum for Students Already 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/~speaweb

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; 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



School of Public and Environmental Affairs, Tenth Street

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

- Arts management—Management of resources in all branches of 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)

C– or higher required. See pp. 9–10 for options.

■ 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.

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 115, 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: Courses from arts and 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 E 103
 Communication and Culture
 Comparative Literature
 English
 Fine Arts
 Folklore and Ethnomusicology
 Foreign Languages and Literatures
 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 E 104
 Criminal Justice
 Gender Studies
 Geography GEOG-G 110, G 120
 History
 Journalism
 Linguistics
 Political Science
 Psychological and Brain Sciences (not P 101 or P 155)
 Sociology
 Telecommunications

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 376 Law and Public Policy

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.

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, or PHSL-P 215

Public Health Core (six courses)

SPEA-V 160 National and International Policy
 SPEA-H 316 Environmental Health
 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.

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, steady or upward grade trends, and SPEA course GPA of at least 2.0. 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 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.

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 members of ethnic minorities.

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 pp. 9–10.

■ 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* booklet 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.

DIVISION OF LABOR STUDIES PROGRAM

www.labor.iu.edu

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. Labor studies 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 the history of trade unionism, labor and employment law, changing relationships between family and work, occupational health and safety, and sexual harassment.

The Labor studies program within the School of Social Work at Indiana University is a statewide program with a few faculty on each of six of the eight IU campuses: Bloomington, Fort Wayne, IUPUI, Kokomo, Northwest, and South Bend. Labor studies exists at IU both as an extension program that provides labor education to unions and as an academic program.

Recommended courses for the first year for 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 Web site: www.labor.iu.edu.

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

THE HEALTH PROFESSIONS AND PRELAW CENTER

www.hpplc.indiana.edu

The mission of University Division's Health Professions and Prelaw Center (HPPLC) is to help Bloomington students become thoughtful, well-prepared, and successful in their pursuit of a professional career in health or law.

Professional practice as a dentist, doctor, lawyer, occupational therapist, optometrist, pharmacist, physical therapist, physician assistant, or veterinarian requires a graduate degree. Preparation for admission to these programs may be completed at the IUB campus. Bachelor's and associate degree programs are offered by the IU School of Medicine Health Professions Programs, the IUPUI School of Informatics Health Information Administration Program, and the IU School of Dentistry's Dental Hygiene Program. Students can begin preparation for these programs at Bloomington, but they must complete them at other IU campuses. For information on nursing or optician/technician programs, see those sections of the *UD Guide*.

While at IUB, you will need to prepare systematically to gain admission to these professional programs. HPPLC advisors will help you in this endeavor. Any undergraduate major would be acceptable to prepare for admission to graduate-level professional programs; when selecting a major, consider ones you'll enjoy and in which you can excel, as well as ones that might serve as a basis for further study or employment should you choose not to pursue a professional degree. Consult with your academic or HPPLC advisor if you have questions about choosing a major.

If you are interested in preparing for one of these professional careers, we encourage you to schedule an individual advising appointment at the Health Professions and Prelaw Center. The HPPLC office has information on specific admission requirements and statistics for every preprofessional school and program in the country. For more information, visit the HPPLC Web site at www.hpplc.indiana.edu. (Once there, click the "E-mail Lists" link to sign up for lists pertinent to your area of preprofessional study.) You may contact HPPLC at (812) 855-1873, hpplc@indiana.edu; or visit the office in Maxwell Hall 010. The center also maintains a recommendation service through which letters of recommendation may be compiled and disseminated.

Specific course suggestions and requirements for these programs are listed according to the type of degree in the following section. For specific requirements for other schools nationwide, consult a HPPLC advisor.

PREPROFESSIONAL STUDIES LEADING TO GRADUATE DEGREES

Predental Study

For admission to the IU School of Dentistry, a student must have earned a minimum of 90 credit hours. Students must have completed the following predental requirements:

- 1 semester of English composition (ENG-W 131)¹
- 1 semester of introductory psychology (PSY-P 101)¹
- 2 semesters of biology or zoology (BIOL-L 111, L 112, and L 113)¹
- 2 semesters of general/inorganic chemistry (CHEM-C 117 and CHEM-N 330)
- 2 semesters of general physics (PHYS-P 201 and P 202)¹
- 1 semester of organic chemistry (CHEM-C 341 and C 343)
- 1 semester of anatomy (ANAT-A 215)
- 1 semester of physiology (PHSL-P 215 or BIOL-P 451)
- 1 semester of biochemistry lecture (BIOL-M 350 or CHEM-C 483 or C 484)

Predental students must complete lecture and laboratory work in all required science areas except biochemistry and physiology, which do not require a lab. Courses in three-dimensional art (e.g., ceramics, jewelry, design), instrumental music, genetics, histology, molecular biology and cell biology are recommended, but not required, in the predental curriculum. Special credit by testing out of predental requirements will be accepted by the IU School of Dentistry if adequate documentation is provided. Fluency in a second language is strongly encouraged.

¹ See an advisor for appropriate alternatives.

The admissions committee places high value on a well-rounded education in the arts, humanities, and social sciences.

Preferential consideration is given to those with overall and science grade point averages of 3.4 or higher and DAT scores of 19 or higher in every category.

Prelaw Study

Law schools seek applicants who have gained, through their undergraduate experiences, precision in written and oral expression, an understanding of history, a familiarity with scientific method, and an appreciation of social, political, and economic problems of society. No single course of prelegal study can supply these elements for all students, and they may be combined in varying proportions. Students are encouraged to meet with a prelaw advisor in HPPLC during the freshman year to discuss their interests.

Most law schools require a B.A., B.S., or equivalent degree from an accredited undergraduate institution but do not require particular subjects or any special course of study in the undergraduate program. The number of science and engineering majors in law school is growing each year. Admissions committees typically consider narrow collegiate specialization undesirable, particularly if the area of undergraduate study provides solely vocational training. There are no preferred majors.

Premedical Study

The modern world is complex, and physicians care for people from a wide range of social, economic, and cultural backgrounds. The faculty of IU's School of Medicine, like many medical school faculties, requires applicants for admission to include in their undergraduate study a minimum number of science courses. It also expects successful applicants to complete a significant number of courses in the humanities and social and historical studies to gain a better understanding of contemporary society, human experience, and their future patients' backgrounds, problems, and illnesses.

Nearly all of the applicants admitted to the IU School of Medicine have at least a baccalaureate degree before beginning medical school.

Any major from the traditional arts and sciences curriculum is acceptable, as well as some others. Premedical students must complete lecture and laboratory work at the science major's level in the following areas:¹

8–10 credit hours of general chemistry (CHEM-C 117 and CHEM-N 330)²

8–10 credit hours of organic chemistry (CHEM-C 341, C 342, and C 343)²

8–10 credit hours of physics (PHYS-P 201 and P 202)²

8–10 credit hours of biological sciences (BIOL-L 111, L 112, and L 113)²

Medical school applicants are expected to demonstrate proper usage of the English language in speaking and writing. The IU Admissions Committee encourages highly qualified students to enroll in undergraduate honors courses in any area of study.

Pre-Occupational Therapy Study

Occupational therapists help people with physical, cognitive, or psychosocial challenges to 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 pleasure and a sense of purpose.

The Indiana University School of Health and Rehabilitation Sciences (SHRS) offers a master's degree in OT on the IUPUI campus. Students may complete all of the pre-OT requirements on the Bloomington campus for admission to this and other OT programs. As of 2007, occupational therapy students must prepare at the master's level or higher. Students are eligible to apply for admission once they have completed the required observation hours and five of the six prerequisite courses. Students must complete a bachelor's degree prior to beginning the OT program.

The minimum cumulative and prerequisite GPA required to apply is 3.00, although admission is increasingly competitive.

Almost any undergraduate major is suitable for pre-OT students. Consult with your academic advisor for appropriate courses and semester sequencing in order to complete prerequisites for admission to the OT master's degree program.

First-year pre-OT courses can include PSY-P 101 and P 102, or just P 155 (either path fulfills prerequisite requirements for PSY-P 324, which is required for OT); HPER-F 150 or EDUC-P 314; ANAT-A 215; PHSL-P 215; PSY-K 300, or SPEA-K 300 (finite math is a recommended prerequisite for the latter statistics course); CLAS-C 209. Other recommended (but not required) courses include additional humanities and social science courses, CMCL-C 122 or C 121, and courses required for the major(s) you are considering.

If you have specific questions regarding the master's degree in OT, contact an academic advisor in the Health Professions and Prelaw Center, or contact the School of Health and Rehabilitation Sciences student enrollment services coordinator at (317) 274-7238. Also refer to the SHRS Occupational Therapy Web site, www.shrs.iupui.edu/ot/.

¹ Some medical schools require one year of college math or calculus and one year of English. Ask your advisor.

² See an advisor for appropriate alternatives.

Preoptometry Study

The minimum preparation for admission to the IU School of Optometry is 90 credit hours of college courses. (Last year, approximately 93 percent of admitted students had earned a bachelor's degree.) Courses must include:

4–6 credit hours of calculus (MATH-M 211 or M 119-M 120)

10 credit hours of inorganic chemistry (CHEM-C 117 and CHEM-N 330)¹

10 credit hours of general physics (PHYS-P 201 and P 202)¹

3 credit hours of psychological and brain sciences (including PSY-P 101)¹

3 credit hours of statistical techniques (MATH-K 300 or PSY-K 300 or MATH-K 310 or PSY-K 310)¹

6 credit hours of animal biology with lab (BIOL-L 112 and L 113)

6 credit hours of arts and humanities courses¹

8 credit hours of foreign language or the equivalent²

3 credit hours of English composition¹

5-6 credit hours of organic chemistry (CHEM-C 341 and C 342 or C 343)¹

3 credit hours of advanced biology³

6 credit hours of social and historical studies

5 credit hours of microbiology with lab (BIOL-M 250 and M 255)

3 credit hours: Intensive writing requirement

Please contact the school's Office of Student Administration at (812) 855-1917 for the most current information. Students are encouraged in their freshman year to begin meeting with a School of Optometry advisor.

Prepharmacy Study

Pharmacists collaborate with other health care professionals to achieve outcomes from medication that improve patients' quality of life. Students may complete all of their prepharmacy requirements on the Bloomington campus for admission to the Purdue University School of Pharmacy and Pharmaceutical Sciences or another pharmacy program.

HPPLC can provide students with information on IU courses approved to meet admission requirements for the

Purdue Doctor of Pharmacy (Pharm.D.) program. Purdue's requirements include specific courses in chemistry, math, English, anatomy, physiology, biology, physics, and economics.⁴ Students planning to apply to Purdue University's pharmacy program should consult with an advisor in HPPLC to obtain a list of the current required courses for admission. Students interested in other pharmacy schools should see a HPPLC advisor about their requirements.

Recommended courses for the first year for students considering pharmacy: CHEM-C 117; CHEM-C 341; MATH-M 119 and M 120⁵; ENG-W 131 or ENG-L 141 and L 142; BIOL-L 111, L 112, and L 113; ECON-E 201; and general education electives (obtain list from advisor).

Pre-Physical Therapy Study

Physical therapists plan and administer treatment utilizing therapeutic exercise, assistive devices, and physical agents to restore function, relieve pain, and prevent disability following disease, injury, or loss of a part of the body.

The Indiana University School of Health and Rehabilitation Sciences offers a Doctor of Physical Therapy (D.P.T.) degree on the IUPUI campus. Prior to entering the D.P.T. program, students must have completed requirements for a bachelor's degree and the following prerequisite courses. Students should consult with their academic advisors for appropriate courses and semester sequence in order to complete prerequisites.

Humanities/Social Sciences ⁶	6 cr.
Introductory Statistics: PSY-K 300 or SPEA-K 300 ⁷	3 cr.
Human Anatomy (one course with lab): ⁴ ANAT-A 215	5 cr.
Human Physiology (one course with lab): ⁴ PHSL-P 215	5 cr.
Chemistry (two courses with lab): ^{4,7} (CHEM-C 117 and C 118)	10 cr.
Physics (two courses with lab): ⁴ PHYS-P 201 and P 202 or PHYS-P221 and P 222	10 cr.
Introductory Psychology: PSY-P 101	3 cr.
Human Lifespan Development: HPER-F 150 or PSY-P 315 or EDUC-P 314	3 cr.

Students must demonstrate proficiency in medical terminology prior to entering the professional program.

¹ See an advisor for appropriate alternatives.

² Students not seeking a bachelor's degree who have completed two or more years of a single foreign language in high school with an average grade of C or higher are exempt from this requirement. Students seeking a degree in the College of Arts and Sciences must complete three or four semesters of foreign language, depending on the degree.

³ Recommended courses: ANAT-A 215, PHSL-P 215, or BIOL-M 350.

⁴ Level of anatomy, physiology, chemistry and physics courses must be appropriate for science majors and must have been completed within seven years of application and include a lab.

⁵ MATH-M 211 and M 212 may be substituted for MATH-M 119 and M 120.

⁶ Two courses such as sociology, anthropology, art, history, or philosophy.

⁷ See HPPLC advisor for appropriate alternatives.

They will also need to be competent writers and demonstrate computer literacy including e-mail, the Internet, database searches, and spreadsheet and word processing capabilities.

Minimum GPA required to apply: 3.2 CGPA with a 3.2 GPA in the prerequisite anatomy, physiology, chemistry, physics, and statistics courses. For more information, see www.dpt.indiana.edu and www.hpplc.indiana.edu.

Pre-Physician Assistant Study

Physician assistants conduct physicals, diagnose and treat illnesses, order and interpret tests, consult on preventative healthcare, assist in surgery, and, in most states, write prescriptions. PAs work under physician supervision and practice in all areas of medicine.

Indiana University does *not* offer a physician assistant program, but students may complete PA prerequisite courses on the IU Bloomington campus. See www.aapa.org/pgmlist.php3 for a list of certified PA programs. Admission to graduate-level PA programs usually requires completion of a bachelor's degree of the student's choosing, including prerequisite courses, which can be worked into most four-year undergraduate degrees/majors. Because PA requirements vary by program, it is very important to research prerequisites early so you can plan accordingly. (Note that many PA programs favor applicants with extensive health care experience, and that the average PA applicant is 24 years old, partly due to this factor. Nonetheless, some students do successfully apply during their senior year of college. Many programs also expect that applicants will have earned their EMT certification. Earn your certification as early as possible, and begin to accumulate patient contact hours in this and other capacities.)

Requirements vary by program, but some often-required courses that are appropriate for the first-year student can include: BIOL-L 111, L112, and L113; CHEM-C 103 or C 117, ANAT-A 215; PHSL-P 215; PSY-P 101; HPER-H 160 (for first aid certification); HPER-H 401 and H 404 (for EMT certification).¹

Preveterinary Study

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. Veterinary medical schools' admission requirements vary from program to program. Most require a strong foundation in the sciences; communication

skills; and humanities, social science, and business course work. Considerable experience with animals in various settings (including clinical) is very important. Schedule an appointment with a HPPLC advisor for additional information.

Although students may not be required to complete an undergraduate degree in order to be admitted, it is important they choose a major that might serve as a basis for graduate study or employment should they not go to veterinary school. Most preveterinary students are biology majors; however, any major is acceptable as long as admission requirements are met.

Recommended courses for the first-year preveterinary student should include ENG-W 131, CMCL-C 121, MATH-M 119 and M 120 (or MATH-M 211 and M 212), BIOL-L 111, L-112, and L 113, CHEM-C 117 and C 341, humanities, social science, and possibly business courses. ECON-E 201 and PHYS-P 201 are also possible, depending on the student's background.

UNDERGRADUATE DEGREES AND CERTIFICATES COMPLETED AT OTHER IU CAMPUSES

The undergraduate degrees and certificates listed below include IU health-related majors that students may begin on the Bloomington campus but must complete at other IU campuses. (IUPUI is cited most frequently, but other IU campuses may offer similar programs.) IU Bloomington students complete the prerequisite courses while here and apply to these programs at least six months prior to beginning the professional program. See HPPLC handouts and program Web sites for application deadlines.

School of Dentistry Dental Hygiene Programs

www.iusd.iupui.edu/

IU Bloomington does not offer a dental hygiene program, but students may complete preparatory course work at IUB and then transfer to another IU regional campus that offers dental hygiene. Dental hygienists are trained and licensed to provide services including cleaning teeth, taking X rays, examining teeth and gums, recording the presence of diseases or abnormalities, and patient education. Employment opportunities are available in private dental practice, hospitals, public health, educational institutions, and research.

Dental hygiene programs are available on the following IU campuses: IUPUI (Indianapolis: IU School of Dentistry), Fort Wayne, Northwest (Gary), and South Bend. These campuses offer programs leading to an Associate of Science degree. (HPPLC advisors recommend that students apply to more than one dental hygiene program.) The IU School of Dentistry (IUSD) also offers a program

¹ HPER-H 401 and H 404 are taken concurrently and require that HPER-H 160 be taken before them or concurrently with them. (In addition to these IUB course options, other schools, hospitals, fire departments, and private businesses in Indiana offer EMT training. Visit HPPLC, Maxwell Hall 010, to see a list of certified training programs.)

leading to a Bachelor of Science degree in Public Health Dental Hygiene for dental hygienists who desire career options in public health, teaching, research, business, and marketing. This degree is awarded upon completion of an additional 32 credit hours beyond the Associate of Science degree. Dental laboratory technology and dental assisting programs are also available on some IU campuses. Refer to program Web sites for additional information.

Admission to IU Dental Hygiene Programs

Because of the number of science requirements, IUB students usually need two years to complete the admission prerequisites. There is some variation of admission criteria among IU campuses. Other factors in admission may include, shadowing or observation of dental hygienists, college GPA, grades in science prerequisites, participation in an orientation session or open house, a personal statement, and the number of credit hours completed.

The minimum overall GPA required to apply varies across programs, but the average is between 2.00 and 3.00 (the minimum overall GPA is 2.00). The minimum science GPA required at IUPUI/IUSD is 2.70. Considerably higher GPAs are needed in order to be competitive for admission.

Students must complete an application between July 1 and February 1 of the academic year prior to the fall semester when admission is desired. Some programs require that all science prerequisites be completed by the end of the spring semester prior to admission.

Freshman Year Course Work

Note that all of the courses listed below must be completed during the first year in order to attempt admission to a dental hygiene clinical program after one year. IUB students usually take two years to complete their prerequisites. First-year courses can include:

- English Composition: ENG-W 131 or W 170
- Public Speaking: CMCL-C 121
- Science: 9–10 credit hours from CHEM-C 101 and C 121; ANAT-A 215; BIOL-M 200 and M 215; PHSL-P 215. Fort Wayne also requires CHEM-C 102 and C 122 and CLAS-C 209.
- Psychology: PSY-P 101
- Sociology: SOC-S 101
- Arts and Humanities: 3–6 credit hours of Arts and Humanities courses (Refer to your University Division *Course Descriptions* booklet for “A&H” courses.)
- Computer Science: Northwest (Gary) requires that students complete 3 credit hours in computer skills (CSCI-A 110).
- Elective Courses: Other courses of your choosing. Consult with your advisor.

SCHOOL OF INFORMATICS (IUPUI)

Health Information Administration Program

informatics.iupui.edu/academics/health/hia/

IU Bloomington does not offer a health information administration program, but students may complete preparatory course work on the Bloomington campus and then transfer to IUPUI to complete the degree in the School of Informatics. IUB students take approximately two years of prerequisite courses to qualify for admission to the IUPUI program. (For general information on the School of Informatics, see the entry in this *UD Guide*.)

Health information professionals collect, analyze, and protect health care data. They are experts in management of patient information and administration of computer information systems. They also interact with clinical, financial, and legal staff to interpret data for research, statistical reporting, and patient care.

Minimum GPA required to apply: 2.500.

First-year courses vary, but can include ENG-W 131 or 170; CMCL-C 121; ANAT-A 215; PHSL-P 215; INFO-I 101; BUS-K 201; finite math (preferably MATH-M 118 or MATH-S 118, but MATH-A 118 or MATH-D 116-117 is acceptable); BUS-A 200; BUS-X 100; PHIL-P 140 or REL-R 170; another 3 credit Arts and Humanities course (refer to the *University Division Course Descriptions* booklet for A&H courses); social and behavioral science (including PSY-P 102 or P 155, or SOC-S 100; PSY-P 101 is not accepted).

SCHOOL OF MEDICINE

Health Professions Programs

Degree programs (majors) in clinical laboratory science, cytotechnology, medical imaging technology, nuclear medicine technology, paramedic science, radiography, radiation therapy, and respiratory therapy are completed on the Indianapolis campus and administered by the Indiana University School of Medicine (IUSM) Health Professions Programs office. For advising assistance on the IU Bloomington campus, students should contact their freshman advisor or an advisor in HPPLC, Maxwell Hall 010, (812) 855-1873. The Center produces detailed information sheets for the following IUSM Health Professions Programs (HPP) for IU Bloomington students and advises them through the application/admission process. Students are responsible for obtaining the most current information directly from the IUSM Health Professions Programs (HPP) section of the IUPUI Bulletin (bulletin.iupui.edu/2006/pdf/medicine06.pdf). Please call the IU School of Medicine Health Professions Programs at (317) 278-4752 or e-mail askhpp@iupui.edu if you have any additional questions.

Admission to Degree Programs

Admission requirements vary widely among the IUSM Health Professions Programs. Students may take prerequisite courses on the IUB campus for one to three years, depending on the program, in order to qualify for admission to these associate and bachelor degree programs. Once admitted, students must complete one or two years of professional study on the Indianapolis campus (IUPUI), which also includes a clinical practice component. Related programs are also available at IU Northwest, IU South Bend, IPFW (Fort Wayne), IU Kokomo, and IU Southeast.

Prerequisites include courses in general education and the professional concentration. Each program has specific minimum GPA requirements for admission, reflected in program-specific entries below. Students seeking admission to the associate and bachelor's degree programs (with the exception of Respiratory Therapy) *must earn a C or higher in all prerequisite courses.*¹ The actual average GPA for admitted students is almost always considerably higher than the listed minimums. For specific requirements, please refer to the IUSM HPP section of the IUPUI Bulletin and the HPPLC information sheets. For a list of prerequisite courses for these programs at IU Bloomington, please call (812) 855-1873 or consult the publications listed at www.hpplc.indiana.edu.

Because admission to professional programs in the IUSM Health Professions Programs is competitive and limited by the availability of clinical facilities, students completing preprofessional course requirements are not guaranteed admission to professional programs. Applicants must submit applications for the following programs directly to the IUSM Health Professions Programs. For specific deadline dates, please refer to the IUSM Health Professions Programs section of the IUPUI Bulletin.

Freshman Year Course Work

During the freshman year students usually complete the following:

- English Composition: ENG-W 131 or alternate. See pp. 9–10.
- Verbal Communication: CMCL-C 121 or C 122
- Mathematics: See math course recommendations at the end of each of the program-specific entries.
- General Education: See recommended course lists at the end of each of the program-specific entries. General education includes science courses such as chemistry, anatomy, physiology, biology, and

physics. At least one humanities and two social and behavioral science courses are also included.

- Elective Course(s): The amount of elective work varies with each program. Some programs recommend that you take elective course work (e.g., two business courses are required for Radiation Therapy).

Following is an alphabetical list of programs along with program descriptions.

Clinical Laboratory Science (B.S.)

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: 2.500 CGPA with a 2.500 GPA in all mathematics and science courses. The actual average CGPA for admitted students is considerably higher. See your advisor for details.

Recommended courses for the first year: Choose from ENG-W 131; CMCL-C 121 or C 122; one humanities course²; two social and behavioral science courses²; MATH-M 119 or M 211; CHEM-C 117; BIOL-L 112 and L 113 (second term); a computer course²; CLAS-C 209.

Cytotechnology (B.S.)

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: 2.500 CGPA with a 2.500 GPA in all biology courses. The actual average CGPA for admitted students is considerably higher. Please see your advisor for more details.

Recommended courses for the first year: Choose from ENG-W 131; CMCL-C 121 or C 122; one humanities course²; two social and behavioral science courses²; one math course from MATH-M 025 or higher; CHEM-C 101/C 121 and C 102/C 122 (or CHEM-C 117 and C 118); BIOL-L 112, L 113 (second term); computer course²; HPER-H 320.

Medical Imaging Technology (B.S.)

Medical imaging technologists carry out advanced imaging procedures. *Students must first complete the A.S. in Radiography or be A.R.R.T. certified with a minimum GPA of 3.000 in their radiography coursework* plus complete additional prerequisites with a minimum CGPA of 2.800. The actual average CGPA for admitted students is considerably higher. See your advisor for details.

Recommended courses for the first year: Please see entry under "Radiography."

¹ The Respiratory Therapy Program does not require all prerequisite courses to be completed with a grade of C or higher, only mathematics and science courses.

² Please see your advisor for appropriate alternatives.

Nuclear Medicine Technology (B.S.)

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 cumulative GPA required to apply: 2.800 CGPA with a 2.500 GPA in all mathematics and science courses. The actual average CGPA for admitted students is considerably higher. Please see your advisor for more details.

Recommended courses for the first year: Choose from ENG-W 131; CMCL-C 121 or C 122; PSY-P 101; social and behavioral sciences elective¹; two math courses; computer course¹; CHEM-C 101/C 121 and C 102/C 122; CLAS-C 209; humanities course¹.

Paramedic Science (A.S.)

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.

Minimum GPA required to apply: 2.300. Students may apply for either spring or fall admission, depending upon when prerequisite courses will be completed. Careful planning will increase the likelihood that you can complete all admission prerequisites during your first year (see a HPPLC advisor).

Recommended first-year courses include ENG-W 131; CMCL-C 121 or C 122; ANAT-A 215; PHSL-P 215; MATH-M 014 or higher; PSY-P 101; SOC-S 100. HPER-H 160 and HPER-H 401/H 404², plus certification exams, will gain EMT certification, which is also required prior to beginning the professional course work.

Radiation Therapy (B.S.)

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: 2.500 CGPA with a 2.300 GPA in all prerequisite mathematics and science courses and a 2.500 GPA in stated prerequisite courses. The actual average CGPA for admitted students is considerably higher. See your advisor for details.

Recommended courses for the first year: ENG-W 131; CMCL-C 121 or C 122; PSY-P 101; MATH-M 025 and

M 026 or MATH-M 119; PHYS-P 201; humanities course¹; computer course¹; CHEM-C 101/C 121; HPER-H 220 and H 320.

Radiography (A.S.)³

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: 2.800 CGPA with a 2.500 GPA in all mathematics and science courses. The actual average CGPA for admitted students is considerably higher. Please see your advisor for more details. Students who will complete the math (college algebra) and English composition courses in their freshman year should apply to the professional program in the fall semester of their freshman year.

Recommended courses for the first year: ENG-W 131; CMCL-C 121 or C 122; CLAS-C 209; social and behavioral science course¹; MATH-M 014 or higher.

Additional courses (for future admission into the Medical Imaging Technology program): MATH-M 025 or M 119; CHEM-C 101 or C 117; PSY-P 101; PHYS-P 101 or P 201; humanities course¹; computer course¹.

Respiratory Therapy (B.S.)

Respiratory therapists evaluate and treat patients with cardiopulmonary disorders. 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.

Minimum GPA required to apply: 2.500 CGPA and a minimum grade of C in all math and science courses.

Recommended courses for the first year: ENG-W 131; CMCL-C 122 or C 121; two math courses¹; CHEM-C 101/C 121, C 103 or C 117; ethics course¹; HPER-F 150 or EDUC-P 314; PSY-P 101; computer course¹; CLAS-C 209;

HPER-H 220, H 160, or H 263; HPER-N 220 or N 231.

¹ Please see your advisor for appropriate alternatives.

² HPER-H 401 and H 404 are taken concurrently and require that HPER-H 160 be taken in advance or concurrently. In addition to these IUB course options, other schools, hospitals, fire departments, and private businesses in Indiana offer EMT training. Visit HPPLC (Maxwell Hall 010) to see a list of certified training programs.

³ Students may be admitted to this program directly from high school. Please see bulletin.iupui.edu/2006/pdf/medicine06.pdf for more information.

Part III—Important Information for University Division Students

THE UNIVERSITY DIVISION ADVANTAGE

University Division (UD) is the first academic home for the vast majority of IUB freshmen, as well as many continuing and transfer students. UD does not award academic degrees. Instead, UD serves as an academic gateway to IUB, providing services that can be tailored to meet your specific needs prior to your admission to a degree granting unit.

UD advisors are trained in addressing the developmental needs of students and can help you develop curricular plans that reflect your interests, abilities, values, and goals. In addition to giving you expert, personalized advice about degree programs, course selection and course sequencing, your UD advisor will help you connect with faculty, academic support services, student organizations, mentoring services, internships and other opportunities.

UNIVERSITY DIVISION ACADEMIC ADVISING

UD advisors offer expert knowledge about all of IUB's academic programs. If you are interested in exploring a variety of academic options, your UD advisor can talk with you about your interests and abilities and guide you toward the materials, resources and services that will best serve your individual needs.

If you have already chosen an academic major, your UD advisor can explain degree requirements and provide guidance on course selection and sequencing. Your advisor can also give you information about minor and certificate programs that will add breadth to your academic program, making it more distinctive.

If you are interested in exploring your academic options, UD's award-winning Exploratory Student Resources program will be of interest to you, as will our "Exploring Your Options" series. Presentations in the Exploring Your Options series emphasize faculty and student perspectives on a wide variety of academic and co-curricular options available to IUB students. You can find out more at www.iub.edu/~udiv/.

UD also offers specialized advising that will help prepare you for a career in the legal or health professions. If you plan to seek admission to competitive health or law-related professional schools, get acquainted with UD's award winning Health Professions & Prelaw Center (HPPLC). You can find out more at www.hpplc.indiana.edu.

UD advisors make recommendations and referrals to other units on the IUB campus as appropriate. If you find you need assistance making a successful academic transition to the university, UD's Student Academic Center (SAC) offers courses, consultations and free workshops that address time management, test-taking anxiety, stress reduction, and other study and life skills. You can find out more at sac.indiana.edu.

UNIVERSITY DIVISION ADVISOR ASSIGNMENTS

Each University Division student is assigned to an academic advisor.

- **Most UD freshmen** are assigned to an advisor with an office in the residence hall in which the student lives or a neighboring residence hall.
- **Freshmen living off-campus** are assigned to an advisor in Maxwell Hall, which is located centrally on the campus.
- **International freshmen** enrolled through UD are assigned to a specialist (international) advisor in Maxwell Hall.
- **UD Transfer students** are assigned to an advisor in Maxwell Hall.

Freshmen and transfer students will be notified about their advisor assignment two weeks before classes begin. If you have a question or concern about your advisor assignment during Welcome Week or once classes begin, call (812) 855-6768.

UNIVERSITY DIVISION ADVISING APPOINTMENTS

It is your responsibility to seek advising and schedule appointments with your assigned advisor.

In addition to 30-minute advising sessions available by appointment, UD offers walk-in advising daily in many office locations, including some evening hours in the Academic Support Centers (ASCs). Walk-in advising sessions are limited to 10 minutes when others are waiting.

Once classes begin, go to www.indiana.edu/~udiv/staff_hours_offices.html for specific information related to your advisor's office hours and location.

UNIVERSITY DIVISION POLICIES

- **Required advising before registration:** First year students enrolled through University Division are expected to attend at least one academic planning session with an academic advisor every semester. UD students beyond the first year are encouraged to attend a planning session every semester.
- **Email:** UD students are responsible for reading their IUB email on a frequent and consistent basis.
- **Completing English composition:** In order to remain eligible to enroll through University Division, students must complete the English composition requirement within the first 55 hours of credit on their university transcript or within their first two semesters at IUB (fall or spring). For details, see www.indiana.edu/~udivadv/udivweb/englishcompreq.html.
- **Declaring a major:** University Division requires students to declare their intended major no later than the semester in which they will complete their 55th credit hour. UD also requires students whose first choice of major uses a competitive admission process (e.g. Business) to declare a second choice of major no later than the semester in which he/she will complete his/her 55th credit hour. For details, see www.indiana.edu/~udivadv/udivweb/70hourcap.html.
- **Certification/Admission to degree-granting Units:** University Division does not award academic degrees. A student enrolled in at IU Bloomington through University Division must certify/be admitted into a degree-granting unit at the beginning of the term following the one in which he/she completes 70 credit hours. (Exception: A transfer student, regardless of how many credit hours he/she has transferred to IUB, will be allowed to enroll through University Division for at least two terms.) For details, see www.indiana.edu/~udivadv/udivweb/70hourcap.html.
- **Academic Probation/Dismissal:** To remain in good academic standing, University Division students are required to maintain a cumulative grade point average (CGPA) of 2.00 or higher. Students with a CGPA below 2.00 at the end of any semester will be placed on academic probation. Repeated semesters with a CGPA below 2.00 can result in dismissal from University Division. For details, see www.indiana.edu/~udiv/academicstatus.html.

Appendix

ADVANCED PLACEMENT PROGRAM (AP) TEST INFORMATION

Subject	AP Score	Department or School	Course Credit	Credit Hours Received
Art:		Fine Arts		
History	5		A 101/A 102	(3-3) 6
Studio	3-4		Undistributed ¹	3
	5		Undistributed ¹	5
Biology	4	Biology	E 112	3
	5		E 111/E 112	6
Chemistry ²	5	Chemistry	C 117	5
Computer Science:		Computer Science		
A	3-4-5		A 201	4
AB	2-3		A 201	4
	4-5		A 201/A 202	(4-4) 8
Economics:		Economics		
Micro	4-5		E 201	3
Macro	4-5		E 202	3
English:		English		
Composition and Literature	4-5 ³		L 198 (Literature)	3
Language and Composition	4-5 ³			
Environmental Science	4-5	SPEA	E 272	3
Geography:		Geography		
Human Geography	3-5		G 110	3
Government:		Political Science		
American	4-5		Y 103	3
Comparative	4-5		Y 107	3
History:		History		
American	4-5		H 105/H 106	(3-3) 6
European	4-5		H 103/H 104	(3-3) 6
World	4-5		W 100	3
French: ⁴		French/Italian		
Language	3		F 200	3
	4-5		F 200/F 250	6
Literature	3 5		F 200/F 250	6
	4-5 ⁶		F 200/F 250	6
German: ⁴	2	Germanic Studies	G 100	4
Language	3		G 200/G 250	(3-3) 6
	4 ⁷		G 200/G 250	(3-3) 6
	5 ⁸		G 200/G 250	(3-3) 6
Latin: ⁴		Classical Studies		
Vergil	3 ⁹		L 100/L 150	8
	4-5		L 200/L 250 & L 309	(3-3-3) 9
Lyric	3 ⁹		L 100/L 150	8
	4-5		L 200/L 250 & L 304	(3-3-3) 9

¹ Undistributed indicates that credit is not assigned to a specific course.

² Students who earn test credit for C 117 are recommended to take S 117 (honors version of C 117) in the first semester or C 341 (or S 341, the honors version of C 341) in the second semester after consultation with the Department of Chemistry.

³ Students with AP scores of 4 or 5 are exempted without credit from the first-level English composition course. Students who also earn a score of 660+ on the SAT Writing Test will receive 2 hours of special credit in W 143.

⁴ If you test into the 200 level or above and are a full-time student, 8 hours of credit for 100-level courses are automatically added to your transcript.

⁵ Students who continue studying French should take F 300.

⁶ Students who continue studying French should take F 300 unless they have permission from the department undergraduate advisor to skip this course.

⁷ Students who continue studying German are exempt from G 300 and should take G 330. No special placement credit is awarded above the G 250 level.

⁸ Students who continue studying German are exempt from G 300/G 330 and should take G 400. No special placement credit is awarded above the G 250 level.

⁹ 17 credit hours will be given to students who receive a score of 3, but only after they have completed L 305, L 307, or L 308 with a grade of C- or higher.

Subject	AP Score	Department or School	Course Credit	Credit Hours Received
Mathematics:		Mathematics		
Calculus AB	4-5		M 211	4
Calculus BC	4-5		M 211/M 212	(4-4) 8
Music	3	Music	Undistributed ¹	3
	4		Undistributed ¹	4
	5		Undistributed ¹	5
Physics:		Physics		
B	4		P 201	5
	5		P 201/P 202	(5-5) 10
C				
Mechanics	4-5		P 221	5
Electricity and Magnetism	5		P 222	5
Psychology	4-5	Psychological and Brain Sciences	P 101	3
Spanish: ²		Spanish/Portuguese		
Language	3		S 200	3
	4		S 200/S 250	(3-3) 6
	5		S 200/S 250/S 310	(3-3-3) 9
Literature	3		S 200	3
	4		S 200/S 250	(3-3) 6
	5		S 200/S 250/S 331	(3-3-3) 9
Statistics	4-5	Statistics	S 300	4

¹ Undistributed indicates that credit is not assigned to a specific course.

² If you test into the 200 level or above and are a full-time student, 4 hours of credit for HISP-S 105 will be automatically added to your transcript.

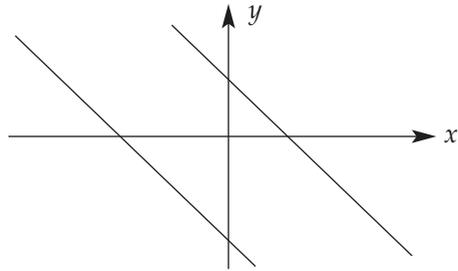


History Professor David Pace meets with new students.

Photography by IU Photographic Services, IU School of Public and Environmental Affairs, Tyagan Miller, Owen Mundy, Annalese Poorman, Evelyn Tracy, and Nancy Webber.

Sample Problems: Mathematical Skills Assessment (MSA)

1. $(xy^3)^2 =$
 (a) $x^2 y^3$ (b) $x^2 y^6$ (c) $(xy)^6$ (d) $x^2 y^5$
 (e) $(xy)^5$
2. $\sqrt{3}(\sqrt{3} + 2) =$
 (a) $9 + 2\sqrt{3}$ (b) 5 (c) $3 + 2\sqrt{3}$
 (d) $\sqrt{3} + 2\sqrt{3}$ (e) 11
3. $\frac{x-3}{8} - \frac{7}{4} = \frac{5}{8}$ has a solution of
 (a) 12 (b) -6 (c) 15 (d) 16 (e) 22
4. If $x^2 + 2x = 3$, then x could equal
 (a) -3 (b) -2 (c) -1 (d) 0 (e) 3
5. $x^3(2x^{-2} + 4x) =$
 (a) $2x + 4x^4$ (b) $2x^{-6} + 4x^3$ (c) $2x^5 + 4x^4$
 (d) $2x + 4x$ (e) $2x^{-5} + 4x^4$
6. When factored $y^2 - 7y + 12 =$
 (a) $y(y - 7) + 12$ (b) $y(y - 7) + 5$
 (c) $(y + 2)(y + 6)$ (d) $(y + 3)(y + 4)$
 (e) $(y - 3)(y - 4)$
7. $\frac{x}{5y} \div \frac{2x}{3y} =$
 (a) $\frac{3}{10}$ (b) $\frac{2x^2}{15y^2}$ (c) $\frac{x}{15y}$ (d) $\frac{10}{3}$
 (e) $\frac{x + 3y}{2x + 5y}$
8. $\frac{5}{x} - \frac{3}{2y} =$
 (a) $\frac{2}{2xy}$ (b) $\frac{2}{x + 2y}$ (c) $\frac{10x - 3y}{2xy}$
 (d) $\frac{5x - 6y}{2xy}$ (e) $\frac{10y - 3x}{2xy}$
9. If $f(x) = \frac{x+3}{5-x}$, then $f(a+4) =$
 (a) $\frac{a+7}{1-a}$ (b) $\frac{a+7}{9-a}$ (c) $\frac{38-6a}{5-a}$
 (d) $\frac{23-3a}{5-a}$ (e) $\frac{a+7}{5-a}$
10. Which are factors of $x^2 - 3x + 2$?
 (I) $x + 1$ (II) $x - 2$ (III) $x - 3$
 (a) I only (b) II only (c) III only
 (d) I and II only (e) II and III only
11. $\frac{8}{4x-16} \cdot \frac{x^2-16}{2x} =$
 (a) 1 (b) $\frac{x-4}{x}$ (c) $x + 4$ (d) $\frac{8x^2-16}{4x-32x}$ (e) $\frac{x+4}{x}$
12. $32^{(2/5)} + 16^{(1/4)} =$
 (a) $48^{(1/10)}$ (b) 4 (c) 6 (d) 8 (e) $84/5$
13. The two parallel lines represent the graphs of which of the following pair of equations?



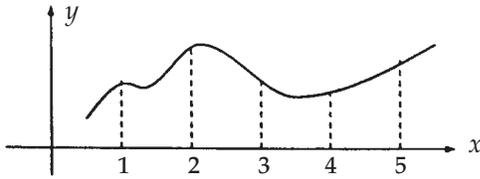
- (a) $x - 2y = 3$ and $x - 2y = 7$
 (b) $x + y = 1$ and $x + y = -2$
 (c) $x + y = 3$ and $2x + 2y = 6$
 (d) $x + y = 3$ and $x - y = 5$
 (e) $x - y = 7$ and $x - y = 14$

14. $\left(\frac{u^2v^3}{2w}\right)^{-2} =$
 (a) $\frac{u^4w^2}{4v^6}$ (b) $\frac{u^6}{4v^6w^2}$ (c) $\frac{4w^2v^6}{u^4}$ (d) $\frac{4u^4v^6}{w^2}$
 (e) $\frac{u^4v^6}{4w^2}$
15. If $a(x + b) = bx - c$ then $x =$
 (a) $\frac{ab+c}{a+b}$ (b) $\frac{b+c}{b-a}$ (c) $\frac{ab+c}{b-a}$ (d) $\frac{b-c}{b-a}$
 (e) $\frac{b+c}{a+b}$

16. Let $f(x) = x^2 - kx + 1$. If $f(2) = 3$, then $k =$
 (a) -4 (b) -1 (c) 1 (d) 2 (e) 3
17. For any x , $|x - 7| =$
 (a) $x - 7$ (b) $|7 - x|$ (c) $|x + 7|$ (d) $-x - 7$
 (e) $|-(x + 7)|$
18. If $7^x = 3$ then $x =$
 (a) $3/7$ (b) $7/3$ (c) $\log_3(7)$ (d) $\log_7(3)$
 (e) $\log_{10}(3/7)$
19. $\log_6 4 + \log_6 9 =$
 (a) 2 (b) $\log_6(13)$ (c) $13/6$ (d) 78
 (e) $\log_6(4/9)$

SAMPLE PROBLEMS: MATHEMATICAL SKILLS ASSESSMENT (MSA), CONTINUED

20. Definition: A function is increasing on the interval $[a, b]$ if and only if $f(x_1) < f(x_2)$ whenever $x_1 < x_2$, where x_1 and x_2 are any numbers in $[a, b]$.



The function f , pictured in the graph above is increasing on the interval

- (a) $[1, 2]$ (b) $[2, 3]$ (c) $[3, 4]$ (d) $[4, 5]$
 (e) none of these

21. Given a rectangle with sides of length x and width y . Suppose the length x is doubled and the width y is halved. The new perimeter is
 (a) $4x + y$ (b) $(2x)(y/2)$ (c) $2x + (y/2)$
 (d) $x^2 + y$ (e) $x^2 + (y/2)$

ANSWERS TO SAMPLE PROBLEMS

1. (b) 2. (c) 3. (e) 4. (a) 5. (a) 6. (e)
 7. (a) 8. (e) 9. (a) 10. (b) 11. (e)
 12. (c) 13. (b) 14. (c) 15. (c) 16. (c)
 17. (b) 18. (d) 19. (a) 20. (d) 21. (a)

SAMPLE PROBLEMS: CALCULUS ADVANCED PLACEMENT EXAM

1. $\lim_{x \rightarrow 1} \frac{7x^2 - 9x + 2}{-2x^3 + x^2 + x} =$
2. $\lim_{\theta \rightarrow 0} \frac{\theta \tan \theta}{\sin^2 \theta} =$
3. $\frac{d}{dx} [\sqrt{x^4 + 1} + \ln(x^2 + 1)] =$
4. Let $f(x) = x/(x^2 + 2)$. Find the intervals on which $f(x)$ is increasing. Find the intervals on which $f(x)$ is decreasing.
5. Let $f(x) = x(\ln x - \sqrt{x})$. Find the inflection points of $f(x)$.
6. The radius of a spherical balloon is changing at a rate of -1.25 inches per second. Find the rate of change in the volume at the moment that the volume is 288π cubic inches.
7. The height, h , of a rectangle is related to its base, b , by $h = b^3 - 4b^2 + 4b$. Find the value of b which will give the largest rectangular area.
8. $\int x \sec^2(x^2 + 5) dx =$
9. $\int \frac{e^{\sqrt{x}}}{\sqrt{x}} dx =$
10. $\int_{-3}^{-2} \frac{1}{2x+1} dx =$

11. $\int_1^2 \frac{t}{(2t-1)^3} dt =$

12. Find the area of the region enclosed by the curves $y = x^2 + 4$ and $x + y = 6$.
13. Find the volume of the solid obtained by revolving the region enclosed by the curves $y = x + 3$ and $y = x^2 + 1$ about the x -axis.
14. If y is given by $dy/dx = -4xy^2$ and $y = 1/4$ when $x = 0$, find y when $x = \sqrt{2}$.

ANSWERS TO SAMPLE PROBLEMS

1. $-5/3$ 2. 1 3. $\frac{2x^3}{\sqrt{x^4+1}} + \frac{2x}{x^2+1}$

4. $f(x)$ is increasing for $-\sqrt{2} < x < \sqrt{2}$; $f(x)$ is decreasing for $x < -\sqrt{2}$ and for $x > \sqrt{2}$.

5. $x = 16/9$ 6. $-180\pi \text{ in}^3/\text{sec}$ 7. $b = 1$

8. $(1/2) \tan(x^2 + 5) + C$ 9. $2e^{\sqrt{x}} + C$ 10. $\ln(\sqrt{3/5})$

11. $5/18$ 12. $9/2$ 13. $117\pi/5$ 14. $y = 1/8$

GLOSSARY- IUB Terminology

Academic Advising—Facilitating student development while communicating accurate information with the objective of helping students attain their educational goals.

Academic Advisement Report (AAR)—Online progress report of completed/enrolled courses.

Academic Probation—A warning period following a term in which a student's cumulative Grade Point Average (CGPA) falls below 2.000.

Academic Support Center (ASC)—Resource centers in three of IUB's residence halls that provide a wide range of free academic services including tutoring, advising, review sessions, and workshops.

Add/Drop—The process by which courses are added or dropped from a student's schedule.

Admitted—To be formally recognized as a student in a specific unit of the university after making application.

Application—A formal request to be considered for admission.

ARR—Class time or room location to be arranged.

Arts & Humanities (A&H)—Courses that consider the complexity of human experience, thought, emotion, and/or varieties of aesthetic expression.

Bulletin—Official publication of all policies and course descriptions as well as academic majors and minors available through an academic unit.

Certificate—An academic credential involving less coursework than a major but more than a minor, usually earned in addition to an academic degree.

Certification—Transfer of a student record out of University Division and into a degree granting school following completion of admission requirements.

CGPA—Cumulative grade point average.

Co-requisite—Indicates courses that must be taken at the same time.

Credit hour—A unit of academic work. One credit hour usually represents one hour of class work or two to four hours of laboratory work each week for a semester, although variation is possible in some courses. Most BA and BS degrees at IUB require 120–128 credit hours.

Credit Transfer Service (CTS)—A database of courses offered at other colleges and universities that have been articulated as equivalents to IUB courses.

Degree—A title awarded by a university or college following successful completion of a course of study or period of research.

Distribution Courses—Courses that add breadth to a degree program (typically these include A&H, S&H and N&M options).

DIE (Drop-If-Enrolled)—A course that you designate to be automatically dropped from your class schedule if your waitlist request is satisfied.

Elective—A course that provides credit but fulfills no specific degree requirement.

GPA—Grade point average.

Hold—An alert and sometimes an impediment to enrollment that may be placed by a variety of campus offices.

Major—Primary or principal focus of study. Often, the subject in which a student takes the most courses.

Matriculate—To enroll in a college or university as a candidate for a degree.

Midterm grades—Unofficial grades provided to freshmen students in the eighth week of the semester. These grades do not appear on the transcript.

Minor—A subject of study subordinate or supplementary to a major or principal subject.

Natural & Mathematical (N&M)—Courses that explore the physical and biological world through scientific inquiry.

OneStart—The portal for IU Web services.

Permission (PERM)—Required for enrollment in some classes. Call the department offering the class or the number listed in the enrollment notes.

Prerequisite (P:)—A course you are required to complete prior to enrollment in another course.

Recommended (R:)—A course it is suggested you complete prior to enrollment in another course.

School—A degree granting unit of the university (e.g., School of Business, School of Journalism, School of Music).

Social & Historical Studies (S&H)—Courses that develop an objective understanding of social institutions, history and human behavior.

Student Academic Center (SAC)—Offers workshops, courses and consultations to assist students in developing study/life skills that promote academic success.

Student Center—The location of MOST of the updateable/interactive/informational functions of the student database.

TBA—To be announced.

University Identification Number (UID)—10-digit number that identifies an individual at Indiana University.

Waitlist—An option in IUB's registration system. If a class is closed when you register, you can waitlist it. Waitlisting does not guarantee enrollment.

Your Notes and Questions:

WEB SITES OF INTEREST TO IUB STUDENTS

STUDENT SUPPORT

Academic Advising—University Division
www.iub.edu/~udiv

Academic Support Center
www.indiana.edu/~acadsupp/ASChome.shtml

Admissions
www.admit.indiana.edu

Bureau of Evaluation Studies and Testing
www.indiana.edu/~best

Bursar
www.indiana.edu/~blbursar

Career Development Center (CDC)
www.indiana.edu/~career

Center for English Language Training
iep.indiana.edu

Counseling and Psychological Services (CAPS)
healthcenter.indiana.edu/caps

Dean of Students
www.dsa.indiana.edu/dos.html

Disability Services for Students
www.dsa.indiana.edu/dss.html

**Exploratory Student Resources—
University Division**
www.iub.edu/~udiv/html/explore.html

**Health Professions and
Prelaw Center**
www.indiana.edu/~udivhpp

Hoosier Help Online (H2O)
www.h2o.iub.edu

**Indiana University
Bloomington campus**
www.iub.edu

International Admissions
www.admit.indiana.edu/international/welcome

International Services
www.indiana.edu/~intlserv

Orientation Programs
www.indiana.edu/~orient

Overseas Study
www.indiana.edu/~overseas

Registrar
www.indiana.edu/~registra

Student Financial Assistance
www.iub.edu/~sfa

Student Academic Center
www.indiana.edu/~sac

Student Advocates
www.dsa.indiana.edu/adv.html

ACADEMIC UNITS

College of Arts and Sciences
www.indiana.edu/~college

Kelley School of Business
www.bus.indiana.edu

Continuing Studies
www.indiana.edu/~scs

Education
www.education.indiana.edu

**Health, Physical Education,
and Recreation**
www.hper.indiana.edu

Informatics
www.informatics.indiana.edu/academics

Journalism
www.journalism.indiana.edu

Labor Studies
www.labor.iu.edu

Medicine Health Professions Programs
msa.iusm.iu.edu/hpp

Jacobs School of Music
www.music.indiana.edu

Nursing
www.indiana.edu/~iubnurse

Optometry
www.opt.indiana.edu

Public and Environmental Affairs
www.indiana.edu/~speaweb

Social Work
www.socialwork.iu.edu

