

INDIANA UNIVERSITY BULLETIN 1990-1992

SCHOOL OF
PUBLIC AND
ENVIRONMENTAL
AFFAIRS
UNDERGRADUATE
PROGRAMS

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When you become a student at Indiana University, you join an academic community internationally known for the excellence and diversity of its programs. Indiana University is one of the nation's oldest and largest state universities, with eight campuses serving more than 92,000 students. IU also offers courses through facilities at Columbus, Elkhart, and many other sites.

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Indianapolis

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Indiana University Bulletin 1990/92

School of Public and Environmental Affairs

Undergraduate Programs

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School of Public and Environmental Affairs

The School of Public and Environmental Affairs (SPEA) is a multidisciplinary division of Indiana University. The school is organized as a professional school, committed to teaching, applied research, and service, based on problems that need solutions. The interests of the faculty and professional staff typically fall into one or more of the following areas: policy and administration; finance and economics; urban affairs; environmental science and policy; criminal justice, law, public safety; and health science and administration. The school's faculty, staff, and students work individually and jointly to solve problems that require SPEA's unique combination of in-depth knowledge in the physical and life sciences, and an equally informed understanding of the behavioral, social, and administrative sciences.

The best application of the school's varied resources, both staff and facilities, is insured by its organizational design. SPEA, because of its broad program base, offers scientific and technical assistance to Indiana communities from any of the eight IU campuses or from all eight acting in concert. The design of the school also reinforces a wide network of continuing relations with a large number of public agencies at all levels of government. This network guarantees that the research activities of the school will be applied research in the best sense of that term: research that begins with thoughtful analysis of an actual problem and works toward a solution both relevant and possible.

The School of Public and Environmental Affairs at the undergraduate level offers two associate of science degrees, four bachelor of science degrees, and four certificate programs. These programs are designed for persons interested in positions in public, private, and voluntary organizations as well as career advancement or self-improvement. They provide a sound general education with specialized study of criminal justice, public affairs, public health, or environmental systems as well as other professionally oriented areas of specialization.

SPEA Alumni Association

SPEA maintains contact with alumni through the SPEA Alumni Association, a constituent

society within the parent Indiana University Alumni Association. Contact occurs several ways. First, the SPEA Alumni Association publishes the School's newsletter, *Alumni Update*, mailed three times a year to more than 8,500 SPEA alumni located in all 50 states and 21 foreign countries. Through this newsletter alumni, faculty, and students are able to maintain contact with each other. Second, the SPEA Alumni Association sponsors alumni receptions in several major cities such as Chicago, Denver, Indianapolis, and Washington, D.C. These receptions offer alumni an opportunity to renew old friendships, meet new friends, and visit with faculty. In addition, the SPEA Alumni Association hosts receptions at the annual conferences of the American Society of Public Affairs and the National Association of Schools of Public Affairs and Administration, as well as annual commencement activities for graduates and their families. The SPEA Alumni Association is governed by an elected 16-member Board of Directors, which meets biannually.

Alpha Phi Sigma

Alpha Phi Sigma is the national criminal justice honor society with chapters established on the Northwest and Indianapolis campuses of Indiana University. The society recognizes scholastic excellence by undergraduate and graduate students in the field of criminal justice. It was founded in 1942 and was admitted to the Association of College Honor Societies in 1980. To be eligible, undergraduate students must have earned an overall 3.00 grade point average for at least 40 credit hours of course work, which includes at least four criminal justice courses with a minimum 3.20 grade point average. To remain in good standing students must maintain an overall 3.00 grade point average and a 3.20 grade point average in all criminal justice courses completed. Membership of graduate students is limited to those who have a bachelor's degree in criminal justice or who are currently doing graduate work in this field. A minimum grade point average of 3.40 is required for graduate students for admission and retention.

Pi Alpha Alpha

Pi Alpha Alpha is the national honorary society for schools of public affairs and administration. The society acknowledges outstanding scholarship and contributions to these fields. It was founded in 1972 by the

National Association of Schools of Public Affairs and Administration (NASPAA) to honor those whose performance in public affairs has been distinguished. The Indiana chapter of Pi Alpha Alpha is a charter chapter.

The Indiana chapter offers several types of Pi Alpha Alpha membership. Undergraduate students are eligible when they are in the top 10 percent of their graduating class with a minimum of 3.50 grade point average in at least 15 credit hours of SPEA courses, are in the last semester of the junior year or in the senior year, and have at least a 3.00 grade point average in all course work. SPEA graduate students qualify for membership when they are in the top 20 percent of their M.H.A., M.P.A., or M.S.E.S. classes with a minimum 3.50 grade point average and have completed 50 percent of the required course work (i.e., 24-30 credit hours).

Doctoral students who meet the requirements for Pi Alpha Alpha master's degree student membership or who have completed all the requirements for the M.P.A. or its equivalent are eligible.

Alumni are eligible if they meet all the requirements of student membership but graduate before induction by the Indiana chapter.

Any full-time faculty of NASPAA member institutions offering course work in a public affairs or administration degree program at which a Pi Alpha Alpha chapter is located is eligible for membership.

Honorary membership is available to any person who has achieved distinction in public administration and who possesses the distinguished qualities that Pi Alpha Alpha fosters. Membership in Pi Alpha Alpha may be compared to membership in Phi Beta Kappa for liberal arts graduates. A person evaluating credentials in the various fields of public service should recognize the professional quality such a membership represents.

SPEA Centers, Institutes, Programs, and Services

Historically, universities have been communities of scholars who transmit knowledge from one generation to another. The rapidly changing needs of today's world, however, suggest a new dimension for the university's traditional role. For the School of Public and Environmental Affairs, this dimension encompasses public service

activities that complement innovative academic programs. The school provides a wide variety of services to an equally varied number of federal, state, and local agencies.

The Business-SPEA Library, an official branch of the Indiana University Library, serves the research and study needs of the School of Business and the School of Public and Environmental Affairs. It is on the ground floor between the Business Building and the SPEA Building on the Bloomington campus. The primary service responsibilities of the librarians are to locate specific information and to serve as guides in systematic searches of the literature by using catalogs, encyclopedias, indexes, data bases, bibliographies, and other guides to published materials. Also available is the Computer-Assisted Reference Service.

The Center in Policy and Public Management, based in Bloomington, was established to merge existing research and public service efforts in the school and to enhance research and service opportunities for faculty and students in SPEA. Faculty associated with the center are currently involved in research projects in the areas of human services delivery, criminal justice, and mental health program delivery. Graduate students, associated with the center through the Lilly Community Assistance Program, provide advice and assistance to governmental units throughout the state of Indiana in areas such as computerization of operations, economic development, historical preservation, and zoning and planning.

The Environmental Systems Application Center (ESAC) is the program and administrative organization for grant and contract operations that fit the mission and capabilities of the SPEA Environmental Programs. Its interdisciplinary focus is unique among environmental research centers.

The Executive Education Program, based in Indianapolis, offers opportunities for executives from federal, state, and local governmental agencies as well as executives in private organizations to engage in the continuing examination of problems, issues, approaches, and methods in public and environmental affairs.

The Great Lakes Center for Public Affairs and Administration is a unit of the Division of Public and Environmental Affairs on the Northwest campus. The center conducts research and provides technical services to units of government and other institutions in northwest Indiana. The center also focuses

on issues in public affairs and administration in the Great Lakes region.

The Institute for Development Strategies, directly under the supervision of the Office of Research and Graduate Development with joint support of the School of Public and Environmental Affairs, is an independent, university-wide research program linking faculty resources from various departments and campuses. The institute examines research-related problems in the field of regional economic development at state and national levels as well as at the international level. It focuses on mobilization of regional resources for development and carries out research into the causes and consequences of regional change.

The Transportation Research Center is a joint center of the School of Business and the School of Public and Environmental Affairs. It was established primarily to coordinate and facilitate the transportation research activities of the University. The center's primary expertise lies in the areas of transportation safety, urban public transit, transport modeling and planning, and transport regulatory policy. The center's core staff of 25 professional researchers, numerous faculty, and graduate students conducts research for federal, state, and local government agencies.

Career Planning and Internship Center

The Career Planning and Internship Center seeks to equip the students of the School of Public and Environmental Affairs with job-search skills that will be useful to them over their entire career span. The Career Center staff provides a full range of career development services, including a career planning class (V352), workshops on resume writing and interviewing, personal counseling, and an extensive career library. In addition, the Career Center focuses on the particular requirements of employment in the public sector. The staff instructs students in application procedures, helps them make contact with governmental agencies, and keeps a constantly updated collection of public job listings. The center hosts on-campus visits from federal agencies such as the Environmental Protection Agency, the Treasury Department, and the General Accounting Office, and from state agencies such as the Illinois Bureau of Budget and the New York Management Intern Program. The Center also develops special opportunities for student-employer contact, such as State

Career Day each semester, and an annual trip to the nation's capital during spring break. The Career Center draws heavily on alumni for support. Their assistance is sought for mock interviews, hosting students in Washington, job leads and references, and advice. SPEA is fortunate in having loyal alumni who are willing to volunteer their time and effort to help in these areas.

Career Center services are available to SPEA students and graduates on all campuses. The only requirement is completion of a one-page registration form.

The Internship Program provides students the opportunity to apply knowledge gained in the classroom to real-life situations. Internships vary greatly both in focus (criminal justice, environment, financial management, health care, personnel administration, community development, and urban policy) and in the role played by the student (research, administration, communication, and program implementation).

Whether sponsored or self-initiated, an internship offers students the opportunity to earn academic credit while gaining valuable work experience. After obtaining approval for an internship, a student may register for 1 to 6 credit hours per semester in V380, earning 1 credit hour for every 80 hours of work. Internships may be either full time or part time. A maximum of 15 hours of elective credit in this course may be permitted with SPEA faculty approval. All credit awarded for an internship will be on an S/F (Satisfactory/Fail) basis. Credit will not be granted for work experience obtained prior to approval of an internship and enrollment in V380.

Successful completion of V380 is based on the review of progress reports and evaluations submitted to the Career Center during the internship. In some cases a written report and/or an activities log may be required.

The Undergraduate Programs

The School of Public and Environmental Affairs offers a wide range of undergraduate programs at five of the Indiana University campuses—Bloomington, Indianapolis, Fort Wayne, Northwest (Gary), South Bend—and through a cooperative arrangement at Kokomo and East (Richmond). The undergraduate degrees are the Associate of Science in Public Affairs (A.S.P.A.), the Associate of Science in Criminal Justice (A.S.C.J.), the Bachelor of Science in Public Affairs (B.S.P.A.), the Bachelor of Science in Criminal Justice (B.S.C.J.), the Bachelor of Science in Health Services Management (B.S.H.S.M.), and the Bachelor of Science in Public Health (B.S.P.H.). In addition, the undergraduate program includes area certificate programs in environmental studies, public affairs, public health, and urban studies. Not all degrees and certificates are offered at all campuses.

The programs emphasize the application of the liberal arts with a professional orientation. This provides a sound general education, and a specialized study of public affairs and environmental systems for those interested in public service and in the environment.

The following lists the Indiana University campuses where SPEA undergraduate degrees and certificate programs are offered.

Bloomington

A.S.P.A.	Emergency Services Administration Environmental Affairs Public Administration
B.S.P.A.	Environmental Science and Management Public Financial Management Public Policy Specialized Study in Public and Environmental Affairs
B.S.P.H.	Health Administration
Certificate	Environmental Studies Public Affairs Public Health Urban Studies

Indianapolis

A.S.C.J.	Criminal Justice
A.S.P.A.	Criminal Justice Emergency Services Administration Environmental Affairs Public Administration
B.S.C.J.	Criminal Justice
B.S.H.S.M.	Health Services Management
B.S.P.H.	Environmental Health Health Administration
B.S.P.A.	Criminal Justice Management Specialized Study in Public and Environmental Affairs Urban Affairs
Certificate	Environmental Studies Public Affairs Public Health

Fort Wayne

A.S.C.J.	Criminal Justice
A.S.P.A.	Criminal Justice Emergency Services Administration Public Administration
B.S.C.J.	Criminal Justice
B.S.P.A.	Criminal Justice Management Specialized Study in Public and Environmental Affairs
Certificate	Public Health

Northwest

A.S.P.A.	Criminal Justice Emergency Services Administration Environmental Affairs Public Administration
B.S.C.J.	Criminal Justice
B.S.P.A.	Criminal Justice Health Services Administration Management Specialized Study in Public and Environmental Affairs
Certificate	Public Affairs Public Health

South Bend

A.S.C.J.	Criminal Justice
A.S.P.A.	Criminal Justice Emergency Services Administration Environmental Affairs Public Administration
B.S.C.J.	Criminal Justice
B.S.P.A.	Criminal Justice Management Public Policy Specialized Study in Public and Environmental Affairs
Certificate	Environmental Studies Public Affairs Public Health Urban Studies
East (Richmond)	
A.S.C.J.	Criminal Justice
A.S.P.A.	Criminal Justice Public Administration
Kokomo	
A.S.C.J.	Criminal Justice

Information concerning these programs can be obtained from the following SPEA campus offices:

Bloomington
Director, Undergraduate Programs
School of Public and Environmental Affairs
SPEA Building 260
Indiana University
Bloomington, Indiana 47405
(812) 855-3475

Indianapolis
Office of the Dean
School of Public and Environmental Affairs
Business-SPEA Building 3025
Indiana University-Purdue University at
Indianapolis
801 West Michigan Street
Indianapolis, Indiana 46223
(317) 274-4656

Fort Wayne
Director
Division of Public and Environmental Affairs
Neff Hall 260
Indiana University-Purdue University at Fort
Wayne
2101 Coliseum Boulevard East
Fort Wayne, Indiana 46805
(219) 481-6351

Kokomo

Director of Admissions
Student Services, Indiana University at
Kokomo
2300 South Washington Street
Kokomo, Indiana 46902
(317) 453-2000

Northwest (Gary)

Director
Division of Public and Environmental Affairs
Indiana University Northwest
3400 Broadway
Gary, Indiana 46408
(219) 980-6695

East (Richmond)

Director of Admissions
Indiana University East
2325 Chester Boulevard
Richmond, Indiana 47374
(317) 973-8208

South Bend

Director
Division of Public and Environmental Affairs
Indiana University at South Bend
1700 Mishawaka Avenue
P.O. Box 7111
South Bend, Indiana 46634
(219) 237-4131

Requirements for Admission

Admission to the School of Public and Environmental Affairs on all campuses except Bloomington requires sophomore standing and a minimum cumulative grade point average of 2.00.

SPEA Bloomington requires application to its undergraduate programs. The purpose is twofold. First, to ensure students have an acceptable level of academic achievement and the skills necessary to complete advanced courses; and, second, to limit to the extent possible class size in the more advanced courses.

Bloomington has a competitive admission process which requires students to complete six courses with a C or better in each: SPEA V170, English W131 or option, Economics E201, one approved math course, Political Science Y103 or option, and Computer Science A200 or option.

Students should apply for admission when they are enrolled in their last pre-admission course(s). Admission decisions are based on grades in these six courses and on the cumulative GPA. A minimum cumulative

GPA requirement for admission is established each semester.

Applications are available in the SPEA Undergraduate Advising Office (room 240) and in University Division, Maxwell Hall 108. Application deadlines are July 1 for fall admission, and December 1 for spring.

Intercampus Transfer

Students admitted to the School of Public and Environmental Affairs at any campus of Indiana University may transfer permanently to SPEA on another campus, provided they meet the requirements for admission and good academic standing at the desired campus. Students wanting a temporary intercampus transfer need only meet the good academic standing requirements.

Policies Governing the Undergraduate Program

The following academic policies of the School of Public and Environmental Affairs are applicable to all SPEA undergraduate programs regardless of the campus where they are offered. Additional policies at individual campuses may also apply to SPEA students.

Grading Policies SPEA follows the official grading system of Indiana University, which is as follows:

A+, A = 4.00	C = 2.00
A- = 3.70	C- = 1.70
B+ = 3.30	D+ = 1.30
B = 3.00	D = 1.00
B- = 2.70	D- = 0.70
C+ = 2.30	F = 0.00

The following grades carry no points: I (incomplete—an incomplete will change to an F if the work is not completed within the time period specified by the instructor. An instructor can specify any period of time up to one year), NR (no grade reported), P (pass), R (deferred), S (satisfactory), W (withdrawal—check the current *Schedule of Classes* for deadlines). SPEA students who have retaken a previously failed course (must be the same department and course number) may request to have only the last grade computed in their grade point average. The original F will be replaced by an FX. Requests will be honored only for a maximum of three courses (10 hours). In the event a course is failed twice, only one F can be removed.

Good Academic Standing Students are in good academic standing when their semester and their cumulative grade point averages

are 2.00 or above, and their grade point average in all courses counting in the SPEA core and concentration requirements is at least 2.30.

Probation Students will be placed on academic probation if their semester grade point average is below 2.00 or their core and concentration GPA falls below 2.30. For academic actions summer work is considered a semester if a student attempts at least 7 credit hours.

Critical Probation If, after one semester on probation, students fail to return to good academic standing, they either will be placed on critical probation or, at the discretion of the undergraduate program director, may be dismissed. If a student is given the opportunity to enroll under critical probation, SPEA will establish strict conditions that must be met before that student will be allowed to register for any classes.

Dismissal Students will be dismissed if they fail to return to good academic standing after one semester on critical probation. Students may also be dismissed if, in the opinion of the undergraduate program director, they are not making satisfactory progress toward their degrees.

Readmission Dismissed students must petition their campus undergraduate program director for readmission. Dismissed students whose petitions are denied will not be allowed to register.

Grade Appeals Students generally have one year to appeal a grade given by a SPEA faculty member. Resolution of the issue at the class/instructor level must be attempted before submitting a written appeal to the appropriate program director.

Student Rights and Responsibilities These provide for due process in the event of disciplinary or other actions, and are explained in detail in the student handbook, *Code of Student Ethics*. In accordance with federal law, student records are confidential and are available to other persons only under specific conditions as outlined in University regulations. Students are responsible for planning their own academic programs and for meeting the requirements for their degree or certificate programs. Faculty and academic advisers are obligated only to assist students in meeting this responsibility.

Academic Integrity This is a basic principle requiring that students take credit only for ideas and efforts that are their own. Academic dishonesty violates that principle and undermines the bonds of trust and

cooperation among members of the University community. Penalties and procedures that are applicable when academic misconduct or dishonesty occurs are provided in the Code of Student Ethics. The policy on academic dishonesty is also published each semester in the *Bloomington Schedule of Classes*.

Other Policies Concerning Degree Requirements

Bulletin Policy Students may choose to fulfill the degree requirements listed in the bulletin current at their matriculation or those in effect at the time of their graduation. Requests for deviation from requirements listed in the bulletin must be approved in writing by the program director, whose decision will be final.

Hours Requirements Students must take a minimum of 120 credit hours for the Bachelor of Science degree and a minimum of 60 credit hours for the Associate of Science degree. The campus at which a student completes the plurality of required course work will award the degree, provided that campus is authorized to grant the degree/concentration and that the student has been admitted to that campus. Students may transfer no more than 90 hours (60 hours from a junior college) toward a Bachelor of Science degree or 30 credit hours toward an Associate of Science degree. Class standing, based on total credit hours that count toward minimum degree requirements, is as follows: senior, 86 or more; junior, 56-85; sophomore, 26-55; freshman, fewer than 26.

Grade Point Average Requirement A minimum cumulative GPA of 2.00 is required for the B.S. and A.S. degrees. In addition, a core and concentration GPA of 2.30 must be maintained. For students seeking certificates from SPEA, the minimum GPA requirement is 2.00 in all applicable course work.

Double-Counting Courses taken to meet a specific degree requirement cannot be used (double counted) to satisfy any other degree requirement.

Application for Degree All students must fill out an application for degree at the SPEA Records office on their campus. This application is usually filed six (6) months before the expected graduation date.

Degrees Awarded With Distinction SPEA recognizes outstanding performance by awarding bachelor and associate degrees with three levels of distinction to students who rank within the upper 10 percent of their SPEA graduating class and have

completed a minimum of 60 hours at Indiana University for a B.S. (30 hours for the A.S.). The levels of distinction are as follows: highest 3.90 and above, high 3.70 through 3.89, distinction 3.50 through 3.69.

Requirements for a Second Bachelor's Degree Earning a second Bachelor's degree is discouraged by SPEA. Because a student must take at least 30 additional hours for the second degree and satisfy all requirements for the second degree, SPEA encourages the student to work toward a graduate degree.

Available Options A student in good academic standing may choose to take a maximum of eight elective courses (two per academic year) Pass/Fail for the B.S. degree or two courses for the A.S. degree. Deadlines for exercising this option are published in the *Schedule of Classes* and are strictly enforced. With prior approval, a student may take three courses totalling no more than 10 credit hours by correspondence through the IU Division of Independent Study. Under no circumstances may a student satisfy a core or concentration requirement by correspondence. A student in good standing may earn a maximum of 15 credit hours of elective credit through the SPEA internship program with SPEA faculty approval. The SPEA internship program is described in more detail elsewhere in this bulletin. SPEA students may choose to pursue a minor from another school or department. Students interested in a minor should contact that department for additional information.

Honors and Accelerated Master's Programs

Sophomores and juniors who have completed at least 45 credit hours with a cumulative grade point average of 3.50 or higher may apply for the Honors program. The primary requirements are that a student maintain the 3.50 GPA, successfully complete four designated honors courses, and write a senior thesis. Students may propose a unique course of study in consultation with the SPEA honors adviser.

The Accelerated Master's Program (A.M.P.) is a competitive program for SPEA students. Generally, a candidate must have a 3.50 cumulative grade point average to apply. Students may apply to either the Master of Public Affairs (M.P.A.) or the Master of Science in Environmental Science (M.S.E.S.) during their junior year. Participation in this program allows the student to fulfill some graduate program requirements during the

senior year. Graduate courses may count both for graduate and undergraduate degree requirements, but they cannot exceed 24 hours in the M.P.A. program and 18 hours in the M.S.E.S. program. Under no circumstances will any requirements be waived for the undergraduate degree program. For additional information, students should contact the appropriate graduate program director.

International Programs

SPEA offers three opportunities to study abroad: two one-semester programs in the Netherlands and one year-long experience in England. Students from all over Europe participate in these programs, which are also open to all Indiana University students. This is an excellent opportunity for students to broaden their horizons in a world of rapid change.

Each semester a small group of students take classes, taught in English, in the Netherlands, while a group of Dutch students come to Bloomington to study at Indiana University. In the fall, students study at Leiden University, which was founded in 1575. In the spring, the program is conducted at Erasmus University in bustling Rotterdam, a major seaport. Each one-semester program allows Indiana University juniors and seniors to enroll in 15 hours of courses. Students choose four courses which are in the area of public and environmental affairs, but taught with a European perspective. The fifth course is an independent study paper, which is an in-depth study in an area of the student's choice. In addition, students will take two field trips—one to Hungary, Czechoslovakia, or Germany; the other to the European Community headquarters in Brussels, Belgium.

Students on this program pay regular IU fees for their 15 hours of course work. An excursion fee to cover the field trips is required. Students are also responsible for housing and roundtrip air fare. Any students eligible for financial aid or scholarships in Bloomington can use these funds to help pay for their expenses.

The year-long program in England is in Canterbury at the University of Kent, which has a broad curriculum covering areas such as public administration, urban affairs, law, economics, computer science, management, and the arts. Canterbury, 55 miles southeast of London, is an ancient town of narrow streets with a magnificent cathedral as its

local point. The university, however, is modern, having received its Royal Charter in 1965. Since students will be in England for a year, there is ample time to travel throughout England and the Continent. Minimum qualifications for application are a cumulative GPA of 3.00 and sophomore standing.

Tuition fees are the same as those at IU, and the University of Kent has guaranteed IU students dormitory space in their residential colleges, but room and board charges will probably be higher than in Indiana. You will also be responsible for the roundtrip air fare and for living expenses while the University is not in session.

For additional information in Bloomington, please contact the SPEA International Programs Director. On the other campuses, information may be obtained from the SPEA Campus Director.

Washington Leadership Program

The School of Public and Environmental Affairs offers the Washington Leadership Program each spring semester in Washington, D.C. This 12-credit-hour program consists of two senior-level seminars (each worth 3 credit hours) and an internship (worth 6 credit hours). Students complete internships by working four days per week in an assigned congressional office, public interest group, federal agency, or private organization.

Students reside and have their classes in Washington, D.C. Tuition is based on the regular fees for Indiana University, plus any special program charges. Students in the program remain eligible for any scholarships or financial aid they would normally receive as Indiana University students. Application deadline is October 1 for students who wish to go to Washington the following spring semester. Interested students should contact the appropriate SPEA program or campus director.

Associate of Science Degree Programs

The School of Public and Environmental Affairs offers two associate degree programs. Courses that meet associate degree requirements generally can be applied to a subsequent baccalaureate degree program. The following are general requirements for the completion of an associate degree:

1. Students must apply for admission to the Associate Degree Program before completing 35 credit hours of course work toward the degree. Applications are available in the Records office on each campus.
2. A minimum of 60 hours with a 2.00 cumulative average and a 2.30 average in core and concentration courses is required. All requirements for this degree must be satisfied before earning 86 credit hours.
3. A limited number of courses may be transferred from other accredited institutions or be taken through Independent Study.
4. Courses taken to meet specific degree requirements cannot be used (double counted) to satisfy any other degree requirement.
5. A maximum of two elective courses may be taken Pass-Fail in this degree.

Associate of Science in Criminal Justice

This degree is available on the *Indianapolis, East, Fort Wayne, Kokomo, and South Bend* campuses. The following requirements are uniform on all campuses.

DEGREE REQUIREMENTS

Communications (three courses)
Two of the following writing courses:
English W131 Elementary Composition (3 cr.)
or equivalent campus-approved option
English W231 Professional Writing Skills (3 cr.)
English W232 Introduction to Business Writing (3 cr.) (Fort Wayne campus only)

One of the following speech courses:
Communications C104 Training the Speaking Voice (2 cr.)
Communications C110 Fundamentals of Speech Communications (3 cr.)
Communications C114 Fundamentals of Speech Communications (3 cr.)

Communications C180 Introduction to Interpersonal Communications (2 cr.)
Communications C223 Business and Professional Speaking (3 cr.)
Communications C227 Argumentation and Debate (3 cr.)
Communications C228 Discussion and Group Methods (3 cr.)
Speech S121 Public Speaking (2-3 cr.)
Speech S122 Interpersonal Communications (2-3 cr.)
Speech S223 Business and Professional Speaking (3 cr.)
Speech S228 Argumentation and Debate (3 cr.)
Speech S229 Discussion and Group Methods (3 cr.)

Arts and Humanities (one course)
One course from one of the following subject areas (excluding courses used to satisfy other degree requirements):
Afro-American studies
classical studies
comparative literature
English
fine arts
folklore
foreign languages and literatures
history: H105 or H106 recommended
musicology and music history
philosophy
religious studies
speech
theatre and drama

Social and Behavioral Sciences (two courses)
One course from two of the following subject areas (excluding courses used to satisfy other degree requirements):
anthropology
economics
geography
journalism
linguistics
political science
psychology: Introduction to Psychology recommended
sociology: Introduction to Sociology recommended

Natural Sciences (one course)
One course from one of the following subject areas (excluding courses used to satisfy other degree requirements):
anatomy and physiology
astronomy
biology
botany
chemistry
geology
physics
zoology

Or one of the following cross-listed courses:
 Geography G107 Physical Geography (3 cr.)
 Geography G109 Weather and Climate (3 cr.)
 Geography G303 Weather, Climate, and Man (3 cr.)
 Geography G304 Meteorology and Physical Climatology (3 cr.)

Quantitative Methods (one course)
 One course from one of the following subject areas:
 computer science
 mathematics
 statistics

General Degree Program Electives
 Sufficient additional courses beyond the general education, core, and concentration requirements are needed to meet the Associate of Science degree requirement of 60 credit hours.

Public Affairs and Policy (one course)
 SPEA V170 Introduction to Public Affairs (3 cr.)

Criminal Justice Concentration (Six courses)

The following course:
 J101 The American Criminal Justice System (3 cr.)

Three of the following courses:
 SPEA J301 Criminal Law (3 cr.) or
 SPEA J401 Criminal Law and Procedure (3 cr.)
 SPEA J306 Trial Courts and Criminal Justice (3 cr.)
 SPEA J321 Introduction to Law Enforcement (3 cr.)
 SPEA J331 Introduction to Corrections (3 cr.)

Criminal Justice electives:
 Two additional SPEA criminal justice courses (6 cr.)

Associate of Science in Public Affairs

The degree is available in *Bloomington, Indianapolis, East, Fort Wayne, Northwest, and South Bend*. Students must complete one of the following concentrations: Criminal Justice, Emergency Services Administration, Environmental Affairs, Public Administration, or a specialized program approved by a SPEA adviser. The availability of concentrations varies among campuses.

DEGREE REQUIREMENTS

Communications (three courses)
 Both of the following writing courses:

English W131 Elementary Composition (3 cr.) or equivalent campus-approved option
 English W231 Professional Writing (3 cr.) or
 English W232 Introduction to Business Writing (3 cr.) (Fort Wayne campus only)

One of the following speech courses:
 Communications C104 Training the Speaking Voice (2 cr.)
 Communications C110 Fundamentals of Speech Communications (3 cr.)
 Communications C114 Fundamentals of Speech Communications (3 cr.)
 Communications C180 Introduction to Interpersonal Communications (2 cr.)
 Communications C223 Business and Professional Speaking (3 cr.)
 Communications C227 Argumentation and Debate (3 cr.)
 Communications C228 Discussion and Group Methods (3 cr.)
 Speech S121 Public Speaking (2-3 cr.)
 Speech S122 Introduction to Interpersonal Communications (2-3 cr.)
 Speech S223 Business and Professional Speaking (3 cr.)
 Speech S228 Argumentation and Debate (3 cr.)
 Speech S229 Discussion and Group Methods (3 cr.)

Social Sciences (three courses)
 The following two courses:
 Economics E201 Introduction to Microeconomics (3 cr.) or
 Economics E202 Introduction to Macroeconomics (3 cr.)
 Political Science Y103 Introduction to American Politics (3 cr.)
 One course from sociology or psychology

Quantitative Methods (two courses)
 One of the following computer science courses (CSCI):
 Business K201 Computer in Business (3 cr.)
 CSCI A200 Computer Literacy (3 cr.)
 CSCI A201 Introduction to Computers and Programming (3 cr.)
 CSCI A202 Computer Programming (3 cr.)
 CSCI 206 Computer Programming (3 cr.)
 CSCI 207 Computers in the Social Sciences (3 cr.)
 CSCI 208 The Computer in Business (3 cr.)
 CPT CIS 106 Introduction to Computer (3 cr.)
 CPT CIS 107 Personal Computers (3 cr.)
 CPT 115 Introduction to Data Processing (3 cr.) and CPT 140 Introduction to Computer Lab (1 cr.)

One mathematics course (excluding Mathematics for Teachers and Indiana University mathematics courses below the 100 level): M118 Finite Mathematics (3 cr.) or

M119 Survey of Calculus I (3 cr.) recommended
 Note: Environmental Affairs Concentration students should select a course in calculus to satisfy this requirement.

Arts and Humanities (one course)
 One course from one of the following subject areas (excluding courses used to satisfy other degree requirements):
 Afro-American studies
 classical studies
 communication and theatre
 comparative literature
 English
 fine arts
 folklore
 foreign languages and literature
 history: H105 or H106 recommended
 history and philosophy of science
 literature
 musicology and music history
 philosophy
 religious studies
 speech
 theatre and drama
 Uralic and Altaic studies

General Degree Program Electives
 Sufficient additional courses beyond the general education, core, and concentration requirements are needed to complete the Associate of Science degree requirement of 60 credit hours.

Public Affairs Core (Four courses)

Both of the following courses:
 SPEA V170 Introduction to Public Affairs (3 cr.)
 SPEA V264 Urban Structure and Policy (3 cr.)

One of the following courses:
 SPEA E262 Environment: Problems and Prospects (3 cr.)
 SPEA E300 Introduction to Environmental Science (3 cr.)

One of the following courses:
 SPEA V270 Survey of Administrative Techniques (3 cr.)
 SPEA V366 Managing Behavior in Public Organizations (3 cr.)

Areas of Concentration

Each concentration requires four to seven courses.

Criminal Justice Concentration

This concentration provides an introduction to law enforcement, correctional administration, and criminal law and procedure. It is available on the *Indianapolis,*

East, Fort Wayne, Northwest, and South Bend campuses.

Requirements: (Five courses)
 SPEA J101 The American Criminal Justice System (3 cr.)

One of the following courses:
 SPEA J301 Criminal Law (3 cr.)
 SPEA J401 Criminal Law and Procedure (3 cr.)

One of the following courses:
 Psychology B380 Abnormal Psychology (3 cr.)
 Sociology R344 Juvenile Delinquency and Society (3 cr.)
 Sociology R345 Crime and Society (3 cr.)
 Sociology R346 Control of Crime (3 cr.)
 Sociology S320 Deviant Behavior and Social Control (3 cr.)
 Sociology S325 Criminology (3 cr.)
 Sociology S328 Juvenile Delinquency (3 cr.)
 SPEA J370 Seminar in Criminal Justice (3 cr.)

Two additional criminal justice courses.

Emergency Services Administration Concentration

The Emergency Services Administration Concentration provides managerial skills to Emergency Service personnel. It is available in *Bloomington, Indianapolis, Fort Wayne, Northwest, and South Bend*.

Requirements: (Five courses)
 SPEA V375 Emergency Services Administration (3 cr.)

Three of the following courses:
 SPEA H320 Health Systems Administration (3 cr.)
 SPEA J376 Principles of Public Safety (3 cr.)
 SPEA K300 Statistical Techniques (3 cr.) or other approved courses
 SPEA V346 Introduction to Government Accounting and Financial Reporting (3 cr.)
 SPEA V348 Management Science and Policy Analysis Methods (3 cr.)
 SPEA V372 Financial Management and Budgeting (3 cr.)
 SPEA V373 Personnel Management in the Public Sector (3 cr.)

Students are required to successfully complete an approved administrative field experience of at least 3 credit hours. The field experience requirement may be satisfied through an internship or special project that must have an adviser's prior approval.

Environmental Affairs Concentration

The Environmental Affairs Concentration provides an introduction to environmental problems and options for their solutions. It is

available in *Bloomington, Indianapolis, Northwest, and South Bend.*

Requirements: (Seven courses)

SPEA V365 Urban Development and Planning (3 cr.)

A chemistry or physics course (3-5 cr.)

One of the following courses that is not used to satisfy another requirement:

Geography G101 Introduction to Earth Science (3 cr.)

Geography G107 Physical Geography (3 cr.)

Geology G103 Earth Sciences: Materials and Processes (3 cr.)

Geology G110 The Earth's Environment (3 cr.)

Geology G111 Elements of Geology (3 cr.)

One of the following courses not taken for a social science:

Economics E201 Introduction to Microeconomics (3 cr.)

Economics E202 Introduction to Macroeconomics (3 cr.)

Two of the following courses:

Biology K341 Principles of Ecology (5 cr.)

Biology L200 Environmental Biology (3 cr.)

Biology L350 Environmental Biology (3 cr.)

Geography G213 Introduction to Economic Geography (3 cr.)

Geography G304 Meteorology and Physical Climatology (3 cr.)

Geography G306 The Geography of Current Issues (3 cr.)

Geography G315 Environmental Conservation (3 cr.)

Geology G300 Environmental and Urban Geology (3 cr.)

Geology G316 Mineral Resources (3 cr.)

Geology G415 Geomorphology (3 cr.)

Political Science Y313 Environmental Policy (3 cr.)

SPEA H316 Environmental Health (3 cr.)

SPEA E431 Water Supply and Wastewater Treatment (3 cr.)

SPEA E451 Air Pollution and Control (3 cr.)

SPEA E452 Solid and Hazardous Waste Management (3 cr.)

One of the following courses:

SPEA/Mathematics/Psychology K300 Statistical Techniques (3 cr.)

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

Mathematics/Psychology K310 Statistical Techniques (3 cr.)

Political Science Y205 Elements of Political Analysis (3 cr.)

Psychology B305 Statistics (3 cr.)

Sociology R359 Introduction to Sociological Statistics (3 cr.)

Sociology S250-S251 Methods and Statistics I-II (3-3 cr.)

Statistics 301 Elementary Statistical Methods I (3 cr.)

Public Administration Concentration

The Public Administration Concentration provides an overview of the primary areas of public administration. It is available on all campuses except *Kokomo*.

Four of the following courses:

SPEA H316 Environmental Health (3 cr.)

SPEA V260 Topics in Public Affairs (3 cr.) (Fort Wayne only)

SPEA V346 Introduction to Government Accounting and Financial Reporting (3 cr.)

SPEA V365 Urban Development and Planning (3 cr.) (Fort Wayne only)

SPEA V366 Managing Behavior in Public Organizations (3 cr.) (if not taken to meet public affairs core requirement)

SPEA V372 Financial Management and Budgeting (3 cr.)

SPEA V373 Personnel Management in the Public Sector (3 cr.)

SPEA V376 Law and Public Policy (3 cr.)

SPEA V450 Contemporary Issues in Public Affairs (approved topics) (3 cr.)

Special Concentration

(Minimum of four courses)

A special concentration of at least four courses may be developed to meet special career needs. This concentration must be approved by a faculty adviser and the campus or program director.

Bachelor of Science Degree Programs

The School of Public and Environmental Affairs offers four bachelor of science degree programs.

The School of Public and Environmental Affairs recognizes the complex problems facing our society such as global warming, hazardous waste, escalating health care costs, balance of trade, and international relations. Through the various bachelor of science degree programs we develop our students' problem-solving abilities and organizational skills to contribute possible solutions for these and other problems.

Students with a Bachelor of Science in Public Affairs degree can continue their education in Law, Planning, Public Affairs, Environmental Science or Business Administration. For those who choose immediate employment, our program is flexible enough to provide the necessary background to begin a career in either the private or the public sector.

The Bachelor of Science in Criminal Justice degree is excellent preparation for a career in corrections, law enforcement, or probation. Students could also continue their education by studying Public Affairs, Law, Social Work, and other social sciences.

The Bachelor of Science in Health Services Management is open to experienced health services professionals with an associate degree and credentials in a health field. This program provides specialized management training to qualified students.

The Bachelor of Science in Public Health can lead to graduate study in Health Administration or other related professional fields. Students can also pursue careers in either the public or private sector in areas such as environmental health, health administration, epidemiology, or health policy and planning.

Bachelor of Science in Public Affairs

The Bachelor of Science in Public Affairs requires 120 credit hours and is offered at the *Bloomington, Indianapolis, Fort Wayne, Northwest, and South Bend* campuses.

DEGREE REQUIREMENTS

The SPEA curriculum is divided into four categories—general education, electives,

public affairs core, and a concentration area. Usually the general education and core requirements are the same throughout the Indiana University system. However, the courses required in each concentration are specific to an individual campus, as is the availability of the concentrations.

General Education

Communications (three courses)

Both of the following writing courses:

English W131 Elementary Composition (3 cr.) or equivalent campus option

English W231 Professional Writing Skills (3 cr.) or English W232 Introduction to Business Writing (3 cr.) (Ft. Wayne campus only)

One of the following speech courses:

Communications 114 Fundamentals of Speech Communications (3 cr.)

Communications C104 Training the Speaking Voice (2 cr.)

Communications C110 Fundamentals of Speech Communications (3 cr.)

Communications C180 Introduction to Interpersonal Communication (2 cr.)

Communications C223 Business and Professional Speaking (3 cr.)

Communications C227 Argumentation and Debate (3 cr.)

Communications C228 Discussion and Group Methods (3 cr.)

Speech S121 Public Speaking (2-3 cr.)

Speech S122 Interpersonal Communication (2-3 cr.)

Speech S205 Introduction to Speech Communications (3 cr.)

Speech S223 Business and Professional Speaking (3 cr.)

Speech S228 Argumentation and Debate (3 cr.)

Speech S229 Discussion and Group Methods (3 cr.)

Arts and Humanities (five courses)

History H105 American History I (3 cr.)

History H106 American History II (3 cr.)

Three courses from at least two of the following areas:

Afro-American studies

classical studies

communication and theatre

comparative literature

English

fine arts

folklore

foreign languages and literatures

history

history and philosophy of science

literatures

musicology and music history

philosophy
religious studies
speech
theatre and drama
Uralic and Altaic studies

Social Sciences (six courses)

Political Science Y103 Introduction to American Politics (3 cr.)
Economics E201 Introduction to Microeconomics (3 cr.)
Economics E202 Introduction to Macroeconomics (3 cr.)
Economics E360 Public Finance: Survey (3 cr.)

Two courses from the following areas:

anthropology, criminal justice, some geography courses (check with an adviser), journalism, linguistics, political science (not Political Science Y103), some psychology courses (check with an adviser), sociology, telecommunications, and women's studies.

Natural Sciences (two to four courses)

Minimum of 10 credit hours selected from at least two of the following major areas:

Biology

Biology L100 Humans and the Biological World (5 cr.)
Biology L104 Introductory Biology Lectures (3 cr.)
Biology L111 Introduction to Biology: Evolution and Diversity (5 cr.)
Biology L112 Introduction to Biology: Biological Mechanisms (5 cr.)
Biology N100 Contemporary Biology (3 cr.)
Biology N107 Introduction to Zoology (3 cr.)
Biology 108 Biology of Plants (4 cr.)
Biology 109 Biology of Animals (4 cr.)
Biology 203 Biology of Man (3 cr.)

Chemistry

Chemistry C101 Elementary Chemistry I (3 cr.)
Chemistry C121 Elementary Chemistry Laboratory I (2 cr.)
Chemistry C102 Elementary Chemistry II (3 cr.)
Chemistry C122 Elementary Laboratory II (2 cr.)
Chemistry C105 Principles of Chemistry I (3 cr.)
Chemistry C125 Experimental Chemistry I (2 cr.)
Chemistry 111 General Chemistry (3 cr.)
Chemistry 112 General Chemistry (3 cr.)
Chemistry 115 General Chemistry (3 cr.)
Chemistry 116 General Chemistry (3 cr.)

Earth Sciences

Geography G107 Physical Systems of the Environment (3 cr.)
Geography G109 Weather and Climate (3 cr.)

Geology G101 General Geology (3-5 cr.)
Geology G101 Introduction to Earth Science (3 cr.)
Geology G103 Earth Science-Materials and Processes (3 cr.)
Geology G104 Earth Science-Evolution of the Earth (3 cr.)
Geology G107 Resources and Man (3 cr.)
Geology G109 Evolution of the Earth (3 cr.)
Geology G110 The Earth's Environment (3 cr.)
Geology G111 Elements of Geology I (3 cr.)
Geology G112 Elements of Geology II (3 cr.)

Physics

Physics P101 Physics in the Modern World (4 cr.)
Physics P120 Energy and Technology (3 cr.) or E250 The Environment and Physics (3 cr.) or Physics P110 Energy (2 cr.)
Physics P201 General Physics I (5 cr.)
Physics P218 General Physics (4 cr.)
Physics 100 Physics in the Modern World (5 cr.)
Physics 131 Concepts in Physics I (3 cr.)
Physics 132 Concepts in Physics II (3 cr.)
Physics 200 Physical Environment (3 cr.)

Quantitative Methods (four courses)

One of the following computer courses:
Business K201 Computer in Business (3 cr.)
CSCI A200 Computer Literacy (3 cr.)
CSCI C106 Introduction to Computers and Their Use (3 cr.)
CSCI A201 Introduction to Computers and Programming (3 cr.)
CSCI 201 Computer for Humanities (3 cr.)
CSCI 206 Computer Programming (3 cr.)
CSCI 207 Computers in the Social Sciences (3 cr.)
CSCI 208 The Computer in Business (3 cr.)
CPT 115 Introduction to Data Processing (3 cr.) and CPT 140 Introduction to Computer Lab I (1 cr.)
CIS 106 Introduction to Computers (3 cr.)
CIS 107 Personal Computers (3 cr.)

Two of the following mathematics courses: (Calculus must be taken as one of the two mathematics courses to meet the *Bloomington* or *Indianapolis* SPEA mathematics requirements.)

Mathematics M118 Finite Mathematics (3 cr.)
Mathematics M125 Pre-Calculus Mathematics (3 cr.)
Mathematics M119 Survey of Calculus I (3 cr.)
Mathematics M215 Analytic Geometry and Calculus I (5 cr.)
MATH 118 Finite Mathematics (3 cr.)
MATH 119 Brief Survey of Calculus I (3 cr.)
MATH 147 Algebra-Trigonometry for Technology (3 cr.)

MATH 163 Integrated Calculus and Analytic Geometry I (5 cr.)

One of the following statistics courses:

SPEA/Mathematics/Psychology K300 Statistical Techniques (3 cr.)
Economics E270 Introduction to Statistical Theory in Economics and Business (3 cr.)
Mathematics/Psychology K310 Statistical Techniques (3 cr.)
Psychology B305 Statistics (3 cr.)
Psychology P301 Introduction to Quantitative Topics in Psychology (3 cr.)
Sociology R359 Introduction to Sociology Statistics I (3 cr.)
Sociology S250-S251 Methods and Statistics I-II (3-3 cr.)
STAT 301 Elementary Statistical Methods I (3 cr.)

General Electives

Sufficient additional courses beyond the general education, core, and concentration requirements are needed to reach the minimum of 120 hours required for the degree.

Public Affairs Core

(seven courses)

SPEA V170 Introduction to Public Affairs (3 cr.)
SPEA V264 Urban Structure and Policy (3 cr.)
SPEA E300 Introduction to Environmental Science (3 cr.)
SPEA V348 Management Science and Policy Analysis Methods (3 cr.)
SPEA V360 Public Management (3 cr.)
SPEA V372 Financial Management and Budgeting (3 cr.)
SPEA V376 Law and Public Policy (3 cr.)

Areas of Concentration

Each concentration requires six courses.

Criminal Justice

This concentration is available at *Indianapolis*, *Fort Wayne*, *Northwest*, and *South Bend*.

The following course:

SPEA J101 American Criminal Justice System (3 cr.)

One of the following courses:

SPEA J301 Criminal Law (3 cr.)
SPEA J401 Criminal Law and Procedure (3 cr.)

One of the following courses:

SPEA J306 Trial Courts and Criminal Justice (3 cr.)
SPEA J321 Introduction to American Law Enforcement (3 cr.)
SPEA J331 Introduction to Corrections (3 cr.)
Three additional courses chosen in consultation with an adviser.

Environmental Science and Management
This concentration is available in *Bloomington* only.

Six courses, five of which must be from the following list:

SPEA E325 Computer Programming for Environmental Science (2 cr.)
SPEA E326 Mathematical Methods in Environmental Science (3 cr.)
SPEA E400 Topics in Environmental Studies (3 cr.)
SPEA E410 Environmental Toxicology (3 cr.)
SPEA E431 Water Supply and Wastewater Treatment (3 cr.)
SPEA E440 Wetlands: Biology and Regulation (3 cr.)
SPEA E452 Solid and Hazardous Waste Management (3 cr.)
SPEA E455 Limnology (4 cr.)
SPEA E460 Fisheries and Wildlife Management (3 cr.)
SPEA E461 Fisheries and Wildlife Management Laboratory (3 cr.)
SPEA E470 Elements of Fluid Mechanics (3 cr.)
SPEA E475 Techniques in Environmental Science (3 cr.)

The sixth course must be approved by an adviser.

Health Services Administration

This concentration is available at the *Northwest* campus only.

Each of these three courses:

SPEA H320 Health Systems Administration (3 cr.)
SPEA H352 Health Finance and Budgeting (3 cr.)
SPEA H441 Legal Aspects of Health Care Administration (3 cr.)
Three of the following courses:
SPEA H316 Environmental Health (3 cr.)
SPEA H322 Principles of Epidemiology (3 cr.)
SPEA H371 Human Resource Management in Health Care Facilities (3 cr.)
SPEA H402 Hospital Administration (3 cr.)
SPEA H474 Issues in Public Health (3 cr.)
SPEA V375 Emergency Services Administration (3 cr.)

Management

The management concentration is available on all campuses except *Kokomo* and *Richmond*. However, the courses required are somewhat different on the various campuses.

Bloomington, *Fort Wayne*, and *South Bend*

Each of these two courses:

SPEA V366 Managing Behavior in Public Organizations (3 cr.)
SPEA V368 Managing Government Operations (3 cr.)

Four additional courses chosen in consultation with an adviser.

Indianapolis

Each of these four courses:

SPEA V366 Managing Behavior in Public Organizations (3 cr.)

SPEA V368 Managing Government Operations (3 cr.)

SPEA V370 Research Methods in the Applied Social Sciences (3 cr.)

SPEA V473 Management Applications Seminar (3 cr.)

Two additional courses chosen from the following:

SPEA V346 Introduction to Government Accounting and Financial Reporting (3 cr.)

SPEA V373 Personnel Management in the Public Sector (3 cr.)

SPEA V432 Labor Relations in the Public Sector (3 cr.)

SPEA V442 Topics in Fiscal Management (3 cr.)

SPEA V449 Applied Policy Analysis (3 cr.)

SPEA V450 Contemporary Issues in Public Affairs (approved topics) (1-3 cr.) or other courses chosen in consultation with an adviser

Northwest

Each of these three courses:

SPEA V346 Introduction to Government Accounting and Financial Reporting (3 cr.)

SPEA V366 Managing Behavior in Public Organizations (3 cr.)

SPEA V368 Managing Government Operations (3 cr.)

Three additional SPEA courses chosen in consultation with an adviser.

Public Financial Management

This concentration is available on the *Bloomington* campus only.

These three courses:

Business A201 Introduction to Accounting I (3 cr.)

Economics E321 Theory of Prices and Markets (3 cr.)

SPEA V346 Introduction to Government Accounting and Financial Reporting (3 cr.)

These two classes:

SPEA V442 Topics in Fiscal Management (Cost/Benefit) (3 cr.)

SPEA V442 Topics in Fiscal Management (Financial Policy) (3 cr.)

One additional course chosen in consultation with an adviser.

Public Policy

This concentration is available on the *Bloomington* and *South Bend* campuses, but they have different requirements.

Bloomington

The following course:

SPEA V472 Policy Processes in the U.S. (3 cr.)

One of these three courses:

SPEA V370 Research Methods in the Applied Social Sciences (3 cr.)

SPEA V442 Topics in Fiscal Management (Cost/Benefit) (3 cr.)

SPEA V449 Applied Policy Analysis (3 cr.)

Four additional courses chosen in consultation with an adviser.

South Bend

Each of these two courses:

SPEA V449 Applied Policy Analysis (3 cr.)

SPEA V472 Policy Processes in the U.S. (3 cr.)

Four additional courses chosen from the following list:

SPEA H320 Health Systems Administration (3 cr.)

SPEA H416 Environmental Health Policy (3 cr.)

SPEA J321 Introduction to American Law Enforcement (3 cr.)

SPEA V421 Metropolitan Development (3 cr.)

SPEA V447 Federal Budget Policy (3 cr.)

SPEA V450 Contemporary Issues in Public Affairs (approved topics) (1-3 cr.)

or other courses chosen in consultation with an adviser

Urban Affairs

This concentration is available in *Indianapolis* only.

Each of these two courses:

SPEA V365 Urban Development and Planning (3 cr.)

SPEA V421 Metropolitan Development (3 cr.)

Four additional courses, two of which must be SPEA courses, chosen in consultation with an adviser.

Specialized Study in Public and Environmental Affairs

This concentration is available on all campuses except *Kokomo* and *Richmond*. The courses are the same on all campuses; however, *Indianapolis* and *South Bend* require students to have a 3.00 cumulative grade point average and to request permission to pursue this specialized study before completing two courses toward the concentration.

Requirements

Six courses at the 300-400 level, four of which must be SPEA courses. All courses must be chosen in consultation with an adviser.

Bachelor of Science in Criminal Justice

The Bachelor of Science in Criminal Justice requires 120 credit hours and is offered at the *Indianapolis*, *Fort Wayne*, *Northwest*, and *South Bend* campuses. The program includes four main areas: general education; general electives; public affairs and policy; and criminal justice.

DEGREE REQUIREMENTS

General Education

Communications (three courses)

Both of the following writing courses:

English W131 Elementary Composition (3 cr.) or equivalent campus option

English W231 Professional Writing Skills (3 cr.) or English W232 Introduction to Business Writing (3 cr.) (*Fort Wayne* campus only)

One of the following speech courses:

Communications C104 Training the Speaking Voice (2 cr.)

Communications C110 Fundamentals of Speech Communications (3 cr.)

Communications C114 Fundamentals of Speech Communications (3 cr.)

Communications C180 Introduction to Interpersonal Communication (2 cr.)

Communications C223 Business and Professional Speaking (3 cr.)

Communications C227 Argumentation and Debate (3 cr.)

Communications C228 Discussion and Group Methods (3 cr.)

Speech S121 Public Speaking (2-3 cr.)

Speech S122 Interpersonal Communication (2-3 cr.)

Speech S223 Business and Professional Speaking (3 cr.)

Speech S228 Argumentation and Debate (3 cr.)

Speech S229 Discussion and Group Methods (3 cr.)

Quantitative Methods (three courses)

One of the following mathematics courses:

Mathematics M118 Finite Mathematics (3 cr.)

Mathematics M215 Analytic Geometry and Calculus (5 cr.)

MATH 118 Finite Mathematics (3 cr.)

MATH 147 Algebra and Trigonometry for Technology (3 cr.)

MATH 163 Integrated Calculus and Analytic Geometry (5 cr.)

Other mathematics courses as may be approved.

One of the following statistics courses:

SPEA K300 Statistical Techniques (3 cr.)

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

Sociology R359 Introduction to Sociology Statistics (3 cr.)

Other statistics courses as may be approved.

One of the following computer courses:

Business K201 Computer in Business (3 cr.)

CSCI C106 Introduction to Computers and Their Use (3 cr.)

CSCI 201 Computers for Humanities (3 cr.)

CSCI 206 Computer Programming (3 cr.)

CSCI 207 Computers in the Social Sciences (3 cr.)

CSCI 208 The Computer in Business (3 cr.)

CPT 115 Introduction to Data Processing (3 cr.) and CPT 140 Introduction to Computer Lab I (1 cr.)

Other computer courses as may be approved.

Arts and Humanities (four courses)

Two of the following courses not used to satisfy another degree requirement:

History A325 American Constitutional History I (3 cr.)

History A326 American Constitutional History II (3 cr.)

History H105 American History I (3 cr.)

History H106 American History II (3 cr.)

Political Science Y304 Judicial Process and American Constitutional Law I (3 cr.)

Political Science Y305 Judicial Process and American Constitutional Law II (3 cr.)

Two courses selected from the following subject areas not used to satisfy another degree requirement:

Afro-American studies

classical studies

communication and theatre

comparative literature

English

fine arts

foreign languages and literatures

folklore

history

history and philosophy of science

literature

musicology and music history

philosophy

religious studies

speech

theatre and drama

Natural Sciences (two courses)

Two courses selected from the following subject areas in consultation with an adviser:

astronomy

biology

botany

chemistry

geography
geology
physics
zoology

Social and Behavioral Sciences (five courses)

Four courses selected from the following:

- Psychology B104 Psychology as a Social Science (3 cr.)
- Psychology B380 Abnormal Psychology (3 cr.)
- Psychology P101 Introductory Psychology I (3 cr.)
- Psychology P103 General Psychology (3 cr.)
- Psychology P324 Abnormal Psychology (3 cr.)
- Psychology 240 Introduction to Social Psychology (3 cr.)
- Psychology 350 Abnormal Psychology (3 cr.)
- Sociology R100 Introduction to Sociology (3 cr.)
- Sociology R121 Social Problems (3 cr.)
- Sociology R344 Juvenile Delinquency and Society (3 cr.)
- Sociology R345 Crime and Society (3 cr.)
- Sociology R346 Control of Crime (3 cr.)
- Sociology S161 Principles of Sociology (3 cr.)
- Sociology S163 Social Problems (3 cr.)
- Sociology S320 Deviant Behavior and Social Control (3 cr.)
- Sociology S325 Criminology (3 cr.)
- Sociology S328 Juvenile Delinquency (3 cr.)
- Sociology S420 Topics in Deviance (3 cr.)
- Sociology S429 Crime and the Community (3 cr.)

One course selected from the following subject areas not used to satisfy another degree requirement:

anthropology
economics
political science

General Electives

Sufficient additional courses beyond the general education, core, and concentration requirements are needed to meet the Bachelor of Science degree requirement of 120 credit hours.

Public Affairs and Policy

Four of the following courses:

- SPEA E300 Introduction to Environmental Science (3 cr.)
- SPEA V170 Introduction to Public Affairs (3 cr.)
- SPEA V264 Urban Structure and Policy (3 cr.)
- SPEA V348 Management Science and Policy Analysis Methods (3 cr.)
- SPEA V365 Urban Development and Planning
- SPEA V366 Managing Behavior in Public Organizations
- SPEA V372 Financial Management and Budgeting (3 cr.)

SPEA V376 Law and Public Policy (3 cr.)
or additional courses approved in consultation with an adviser

Criminal Justice Concentration (Ten courses)

The following six courses:

- SPEA J101 Introduction to Criminal Justice (3 cr.)
- SPEA J301 Criminal Law (3 cr.) or SPEA J401 Criminal Law and Procedures (3 cr.)
- SPEA J306 Trial Courts and Criminal Justice (3 cr.)
- SPEA J321 Introduction to American Law Enforcement (3 cr.)
- SPEA J331 Introduction to Corrections (3 cr.)
- SPEA J439 Crime and Public Policy (3 cr.)

Four additional courses in criminal justice

Bachelor of Science in Health Services Management

This degree is primarily intended for people who hold an associate degree from an accredited institution and have experience in a health care field. Students who complete this degree are eligible to sit for the Long-Term Care Administrators examination after they have fulfilled the Administrator-in-Training requirement. At present, the B.S.H.S.M. is offered only in Indianapolis, but courses from other campuses may be applied toward this degree.

DEGREE REQUIREMENTS

General Education

Communications (three courses)

Both of the following courses:

- English W131 Elementary Composition (3 cr.)
or approved option
- English W231 Professional Writing Skills (3 cr.)

One of the following speech courses:

- Communications C110 Fundamentals of Speech Communications (3 cr.)
- Communications C180 Interpersonal Communications (3 cr.)
- Communications C223 Business and Professional Speaking (3 cr.)
- Communications C227 Argumentation and Debate (3 cr.)
- Communications C228 Discussion and Group Methods (3 cr.)

Social Sciences (four courses)

All of the following courses:

- Economics E201 Introduction to Microeconomics (3 cr.)
- Economics E202 Introduction to Macroeconomics (3 cr.)
- Political Science Y103 Introduction to American Politics (3 cr.)

One approved course from one of the following subject areas:

anthropology
geography
journalism
linguistics
political science
psychology
sociology

Natural Sciences (two courses)

Two of the following courses:

- Biology N212 Human Biology (2 cr.) and Biology N213 Human Biology Lab (1 cr.)
- Biology N214 Human Biology (2 cr.) and Biology N215 Human Biology Lab (1 cr.)
- Biology N217 Human Physiology (5 cr.)
- Biology N261 Human Anatomy (5 cr.)
- Chemistry C101 Elementary Chemistry I with Laboratory (5 cr.)
- Chemistry C102 Elementary Chemistry II with Laboratory (5 cr.)
- Chemistry C105 Principles of Chemistry I with Laboratory (5 cr.)
- Chemistry C106 Principles of Chemistry II with Laboratory (5 cr.)

Quantitative Methods (three courses)

One of the following courses:

- Business K201 The Computer in Business (3 cr.)
- CSCI A200 Computer Literacy (3 cr.)
- CSCI C106 Introduction to Computers and Their Use (3 cr.)
- CSCI C201 Introduction to Computer Programming (4 cr.)
- CSCI 201 Computer Literacy: Applications and Concepts (3 cr.)
- CSCI Science 206 Computer Programming (3 cr.)
- CSCI 207 Computer in the Social Sciences (3 cr.)
- CSCI 208 The Computer in Business (3 cr.)
- CPT 115 Introduction to Data Processing (3 cr.) and CPT 140 Introduction to Computer Lab (1 cr.)

One of the following courses:

- Mathematics M118 Finite Mathematics (3 cr.)
- Mathematics M119 Brief Survey of Calculus (3 cr.)
- Mathematics M215 Analytic Geometry and Calculus (5 cr.)

One of the following courses:

- SPEA/Mathematics/Psychology K300 Statistical Techniques (3 cr.)
- Economics E270 Introduction to Statistical Theory in Economics and Business (3 cr.)
- Mathematics/Psychology K310 Statistical Techniques (3 cr.)
- Psychology B305 Statistics (3 cr.)
- Psychology P301 Introduction to Quantitative Topics in Psychology (3 cr.)
- Sociology R359 Introduction to Sociological Statistics (3 cr.)
- STAT 301 Elementary Statistical Methods (3 cr.)

General Electives

Sufficient additional courses beyond the general education, core, and concentration requirements are needed to reach the minimum of 120 hours required for the degree.

Management Core

(four courses)

One of the following courses:

- SPEA V270 Survey of Administrative Techniques (3 cr.)
- SPEA V368 Managing Government Operations (3 cr.)

Each of the following three courses:

- SPEA V346 Introduction to Government Accounting and Financial Reporting (3 cr.)
- SPEA V348 Management Science and Policy Analysis Methods (3 cr.)
- SPEA V366 Managing Behavior in Public Organizations (3 cr.)

Health Services Management Concentration

(nine courses)

Each of the following eight courses:

- SPEA H316 Environmental Health (3 cr.)
- SPEA H320 Health Systems Administration (3 cr.)
- SPEA H322 Epidemiology (3 cr.)
- SPEA H352 Health Finance and Budgeting (3 cr.)
- SPEA H371 Human Resource Management in Health Care Facilities (3 cr.)
- SPEA H441 Legal Aspects of Health Care Administration (3 cr.)
- SPEA H455 Topics in Public Health (Marketing) (3 cr.)
- SPEA H474 Issues in Public Health (3 cr.)

One of the following:

- SPEA H402 Hospital Administration (3 cr.)
- SPEA H411 Long Term Care Administration (3 cr.)

Bachelor of Science in Public Health

The Bachelor of Science in Public Health is available on the *Bloomington* and *Indianapolis* campuses. However, course work applicable to this degree is offered by SPEA at other campuses. This 120 credit hour degree program has two concentrations: Environmental Health, available in *Indianapolis* only, and Health Administration, offered in *Bloomington* and *Indianapolis*.

DEGREE REQUIREMENTS

General Education

Communications (three courses)

Both of the following writing courses:

English W131 Elementary Composition (3 cr.) or approved option

English W231 Professional Writing Skills (3 cr.)

One of the following speech courses:

Communications C110 Fundamentals of Speech Communications (3 cr.)

Communications C180 Interpersonal Communications (2-3 cr.)

Communications C223 Business and Professional Speaking (3 cr.)

Communications C227 Argumentation and Debate (3 cr.)

Communications C228 Discussion and Group Methods (3 cr.)

Speech S121 Public Speaking (2-3 cr.)

Speech S122 Interpersonal Communications (2-3 cr.)

Speech S223 Business and Professional Speaking (3 cr.)

Speech S228 Argumentation and Debate (3 cr.)

Speech S229 Discussion and Group Methods (3 cr.)

Social Sciences (four courses)

All of the following courses:

Economics E201 Introduction to Microeconomics (3 cr.)

Economics E202 Introduction to Macroeconomics (3 cr.)

Political Science Y103 Introduction to American Politics (3 cr.)

One approved course from one of the following subject areas chosen in consultation with an adviser:

anthropology

geography

journalism

linguistics

political science

psychology

sociology

Natural Sciences (two to four courses)

Two to four courses chosen from the following:

Biology A215 Basic Human Anatomy (5 cr.)

Biology L100 Humans and the Biological World (5 cr.)

Biology L104 Introductory Biology Lectures (3 cr.)

Biology L302 Topics in Human Biology (3 cr.)

Biology N212 Human Biology (2 cr.) and

Biology N213 Human Biology Laboratory (1 cr.)

Biology N214 Human Biology (2 cr.) and

Biology N215 Human Biology Laboratory (1 cr.)

Biology N217 Human Physiology (5 cr.)

Biology N261 Human Anatomy (5 cr.)

Biology P215 Basic Mammalian Physiology (5 cr.)

Chemistry C101 Elementary Chemistry I with Laboratory (C121) (5 cr.)

Chemistry C102 Elementary Chemistry II with Laboratory (C122) (5 cr.)

Chemistry C105 Principles of Chemistry I with Laboratory (C125) (5 cr.)

Chemistry C106 Principles of Chemistry II with Laboratory (C126) (5 cr.)

Note: Students concentrating in environmental health must take a minimum of 10 credit hours of chemistry.

Quantitative Methods (three courses)

One of the following courses:

Business K201 The Computer in Business (3 cr.)

CSCI C201 Introduction to Computer Programming (3 cr.)

CSCI A200 Computer Literacy (3 cr.)

CSCI 201 Computer Literacy: Applications and Concepts (3 cr.)

CSCI 206 Computer Programming (3 cr.)

CSCI 207 Computer in the Social Sciences (3 cr.)

CSCI 208 The Computer in Business (3 cr.)

CPT 115 Introduction to Data Processing (3 cr.) and CPT 140 Introduction to Computer Lab (1 cr.)

SPEA V260 Topics in Public Affairs (Computers in Public Affairs) (3 cr.)

One of the following courses:

Mathematics M119 Brief Survey of Calculus (3 cr.)

Mathematics M215 Analytic Geometry and Calculus (5 cr.)

One of the following courses:

SPEA/Mathematics/Psychology K300

Statistical Techniques (3 cr.)

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

Mathematics/Psychology K310 Statistical Techniques (3 cr.)

Psychology B305 Statistics (3 cr.)

Psychology P301 Introduction to Quantitative Topics in Psychology (3 cr.)

Sociology R359 Introduction to Sociological Statistics (3 cr.)

Sociology S250-S251 Methods in Statistics I-II (3-3 cr.)

STAT 301 Elementary Statistical Methods (3 cr.)

Electives

Sufficient additional courses beyond the general education, core, and concentration requirements are needed to meet the B.S.P.H. requirement of 120 credit hours.

Public Health Core

(Six courses)

Each of the following four courses:

SPEA V170 Introduction to Public Affairs (3 cr.)

SPEA H316 Environmental Health (3 cr.)

SPEA H320 Health Systems Administration (3 cr.)

SPEA V366 Managing Behavior in Public Organizations (3 cr.)

One of the following:

SPEA H322 Principles of Epidemiology (3 cr.)

HPER H311 Human Disease and Epidemiology (3 cr.)

One of the following:

SPEA H342 Community Health Education (3 cr.)

HPER C403 Techniques of Public Health Education (3 cr.)

HPER H465 Community Health Education (3 cr.)

Areas of Concentration

Both concentrations are offered in *Indianapolis*. In *Bloomington*, however, only the Health Administration concentration is available.

Environmental Health

(13 courses)

Each of the following six courses:

Biology N251 Introduction to Microbiology (3 cr.)

SPEA H416 Environmental Health Policy (3 cr.)

SPEA H460 Techniques in Environmental Health (3 cr.)

SPEA H465 Public Health Practicum (2 cr.)

SPEA V372 Financial Management and Budgeting (3 cr.)

SPEA V373 Personnel Management in the Public Sector (3 cr.)

One of the following two courses:

SPEA H466 Public Health Field Experience (1 cr.)

SPEA V380 Internship in Public and Environmental Affairs (1-6 cr.)

Six of the following courses:

SPEA E410 Environmental Toxicology (3 cr.)

SPEA E431 Water Supply and Wastewater Treatment (3 cr.)

SPEA E451 Air Pollution and Control (3 cr.)

SPEA E452 Solid and Hazardous Waste Management (3 cr.)

SPEA H428 Food Science and Sanitation (3 cr.)

SPEA H433 Industrial Hygiene and Radiological Health (3 cr.)

Chemistry C341 Organic Chemistry (3 cr.)

Geology G430 Principles of Hydrology (3 cr.)

Geography G315 Environmental Conservation (3 cr.)

Geography G404 Introduction to the Geography of Soils (3 cr.)

Or other courses chosen in consultation with an adviser.

Note: It is recommended that Environmental Health Concentration students who are considering careers in medicine, dentistry, or other health professions select additional courses from the following list to fulfill the general electives allowed in the Bachelor of Science in Public Health program.

Microbiology J200 Medical Microbiology Lectures (3 cr.)

Microbiology J201 Medical Microbiology Lab (1 cr.)

Chemistry C341 Organic Chemistry I (3 cr.)

Chemistry C343 Organic Chemistry I Lab (2 cr.)

Chemistry C342 Organic Chemistry II (3 cr.)

Chemistry C344 Organic Chemistry II Lab (2 cr.)

Chemistry C483 Biological Chemistry (3 cr.)

Physics P201 General Physics I (5 cr.)

Physics P202 General General Physics II (5 cr.)

Physics P310 Environmental Physics (3 cr.)

Physics P320 Introduction to Biophysics (3 cr.)

Health Administration

(12 courses)

Indianapolis

Each of the following six courses:

Business A201 Introduction to Accounting I (3 cr.)

SPEA H352 Health Finance and Budgeting (3 cr.)

SPEA H371 Human Resource Management in Health Care Facilities (3 cr.)

SPEA H441 Legal Aspects of Health Care Administration (3 cr.)

SPEA H465 Public Health Practicum (2 cr.)
SPEA H474 Issues in Public Health (3 cr.)

One of the following two courses:
SPEA V346 Introduction to Government
Accounting and Financial Reporting (3 cr.)
Business A202 Introduction to Accounting II
(3 cr.)

One of the following two courses:
SPEA H466 Public Health Field Experience
(1 cr.)
SPEA V380 Internship in Public and
Environmental Affairs (1-6 cr.)

Four of the following courses:
SPEA H402 Hospital Administration (3 cr.)
SPEA H411 Long Term Health Care
Administration (3 cr.)
SPEA H455 Topics in Public Health
(approved topics) (3 cr.)
SPEA V432 Labor Relations in the Public
Sector (3 cr.)
SPEA V450 Contemporary Issues in Public
Affairs (approved topics) (3 cr.)
AHLT W374 Medical Care I (3 cr.)
AHLT W471 Medical Care II (3 cr.)
AHLT W472 Medical Care III (3 cr.)
Business N300 Principles of Risk and
Insurance (3 cr.)
Sociology R381 Social Factors in Health and
Illness (3 cr.)
Sociology R382 Social Organization of Health
Care (3 cr.)
Other courses chosen in consultation with an
adviser

Bloomington

Each of the following six courses:
Business A201 Introduction to Accounting I
(3 cr.)
SPEA H352 Health Finance and Budgeting
(3 cr.)
SPEA H441 Legal Aspects of Health Care
Administration (3 cr.)
SPEA H465 Public Health Practicum (2 cr.)
SPEA H474 Issues in Public Health (3 cr.)
SPEA V373 Personnel Management in the
Public Sector (3 cr.)

One of the following two courses:
SPEA V346 Introduction to Government
Accounting and Financial Reporting (3 cr.)
Business A202 Introduction to Accounting II
(3 cr.)

One of the following two courses:
SPEA H466 Public Health Field Experience
(1 cr.)
SPEA V380 Internship in Public and
Environmental Affairs (1-6 cr.)

Four of the following courses:
SPEA H402 Hospital Administration (3 cr.)

SPEA H411 Long Term Care Administration
(3 cr.)
SPEA H455 Topics in Public Health
(approved topics) (3 cr.)
SPEA V432 Labor Relations in the Public
Sector (3 cr.)
SPEA V450 Contemporary Issues in Public
Affairs (approved topics) (3 cr.)
Anthropology E375 Mental Illness-Cross
Cultural Perspective (3 cr.)
Anthropology E400 Undergraduate Seminar
(approved topics) (3 cr.)
Business N300 Principles of Risk and
Insurance (3 cr.)
Business N320 Property Liability Insurance
(3 cr.)
Business Z300 Organizational Behavior and
Leadership (3 cr.) or Business Z302
Managing and Behavior in Organizations
(3 cr.)
HPER C366 Health Problems in the
Community (3 cr.)
HPER H318 Drug Use in American Society
(3 cr.)
HPER H320 The Nature of Cancer (3 cr.)
Psychology P320 Social Psychology (3 cr.)
Psychology P324 Abnormal Psychology (3 cr.)
Religious Studies R373 Problems in Social
Ethics (adviser approval required) (3 cr.)

Environmental Studies Major

Environmental studies as a second major is
available only to students working toward a
B.A. degree in the College of Arts and
Sciences on the Bloomington campus, and is
an interdepartmental program designed to
introduce students to environmental
problems associated with modern
civilizations. The program includes a
multidisciplinary study of the effects of
population growth, resources utilization,
energy generation, and agricultural systems,
as well as the emergence of the environment
as a focus of public policy.

College of Arts and Sciences students
choosing this program as a second major
must also complete the general requirements
for a baccalaureate degree of the college and
the requirements for a first major in a
department of the college. These students
must complete at least 25 credit hours in
each major, which are not applied to the
other major. They may thus need to
complete additional courses in one or both
majors.

Requirements

**Option I - Biological or Physical Science
Majors**
(17-18 courses)

All of the following six courses:
Chemistry C105 Principles of Chemistry
(3 cr.) and Chemistry C125 Experimental
Chemistry I (2 cr.)
Chemistry C106 Quantitative Chemistry
(3 cr.) and Chemistry C126 Experimental
Chemistry II (2 cr.)
Political Science Y313 Environmental Policy
(3 cr.)
SPEA E400 Topics in Environmental Studies
(3 cr.)

One of the following courses:
Physics P201 General Physics I (5 cr.)
Physics P221 Physics I (5 cr.)
Physics E250 The Environment and Physics
(3 cr.)

One course in calculus

One of the following courses:
Economics E270 Introduction to Statistical
Theory in Economics and Business (3 cr.)
Mathematics/Psychology/SPEA K300
Statistical Techniques (3 cr.)
Mathematics/Psychology K310 Statistical
Techniques (3 cr.)
Political Science Y205 Elements of Political
Analysis (3 cr.)
Sociology S250-S251 Methods and Statistics
I-II (3-3 cr.)

One of the following courses:
Biology L473 Ecology (3 cr.)
Biology S309 Ecological Biology (5 cr.)

One of the following courses:
Chemistry C341 Organic Chemistry (3 cr.)
Physics P310 Environmental Physics (3 cr.)

One of the following two options:
Economics E201 Introduction to
Microeconomics (3 cr.) and Economics E202
Introduction to Macroeconomics (3 cr.) or
Economics E300 Principles of Economics
(6 cr.)

One of the following courses:
Geography G304 Meteorology and Physical
Climatology (3 cr.)
Geography G404 Introduction to the
Geography of Soils (3 cr.)
Geology G300 Environmental and Urban
Geology (3 cr.)

One of the following courses:
Geography G315 Environmental
Conservation (3 cr.)
Geology G316 Mineral Fuels and Materials
(3 cr.)

One of the following courses:
SPEA E455 Limnology (4 cr.)
Biology Z468 Limnology Lectures and Lab
(4 cr.)

Two additional courses from the elective
group of Option II

**Option II - Social and Behavioral Science
Majors**
(14-16 courses)

All of the following five courses:
Biology L350 Environmental Biology (3 cr.)
A course in chemistry or physics
Political Science Y313 Environmental Policy
(3 cr.)
SPEA E300 Introduction to Environmental
Science (3 cr.)
SPEA E400 Topics in Environmental Studies
(3 cr.)

One of the following courses:
Economics E270 Introduction to Statistical
Theory in Economics and Business (3 cr.)
Mathematics/Psychology/SPEA K300
Statistical Techniques (3 cr.)
Mathematics/Psychology K310 Statistical
Techniques (3 cr.)
Political Science Y205 Elements of Political
Analysis (3 cr.)
Sociology S250-S251 Methods and Statistics
I-II (3-3 cr.)

One of the following options:
Economics E201 Introduction to
Microeconomics (3 cr.) and Economics E202
Introduction to Macroeconomics (3 cr.) or
Economics E300 Principles of Economics
(6 cr.)

One of the following options: A, B, C, D,
or E

A. **Biology**
(Also satisfies above biology course
requirement)
Biology L112 Introduction to Biology:
Biological Mechanisms (5 cr.)
Biology L473 Ecology (4 cr.)

One of the following two courses:
Biology Z468 Limnology Lectures and
Lab (4 cr.) or SPEA E455 Limnology
(4 cr.)

B. **Chemistry**
(Also satisfies above chemistry/physics
requirement)

All of the following courses:
Chemistry C105 Principles of
Chemistry (3 cr.) and Chemistry
C125 Experimental Chemistry I
(2 cr.)
Chemistry C106 Quantitative
Chemistry (3 cr.) and Chemistry
C126 Experimental Chemistry II
(2 cr.)
Chemistry C341 Organic Chemistry
(3 cr.)

C. Geography

The following two courses:

Geography G107 Physical Geography (3 cr.)

Geography G304 Meteorology and Physical Climatology (3 cr.)

One of the following courses:

Geography G404 Introduction to the Geography of Soils (3 cr.)

Geography G405 Hydroclimatology (3 cr.)

Geography G407 Advanced Physical Geography (3 cr.)

D. Geology

One introductory geology course and two of the following courses:

Geology G300 Environmental and Urban Geology (3 cr.)

Geology G316 Mineral Fuels and Materials (3 cr.)

Geology G415 Geomorphology (3 cr.)

Geology G451 Principles of Hydrogeology (3 cr.)

E. Physics

(Satisfies chemistry/physics requirement)

Physics P310 Environmental Physics (3 cr.)

One of the following courses:

Physics P201 General Physics I (5 cr.)

Physics P221 Physics I (5 cr.)

One of the following two courses:

Mathematics M119 Calculus (3 cr.)

Mathematics M215 Analytic Geometry and Calculus (5 cr.)

Electives

Four of the following elective courses:

Anthropology E427 Cultural Ecology (3 cr.)

Business L409 Law and the Environment (3 cr.)

Economics E360 Public Finance: Survey (3 cr.)

Economics E485 Social Control of Industry (3 cr.)

Geography G213 Introduction to Economic Geography (3 cr.)

Geography G315 Environmental Conservation (3 cr.)

Geography G320 Population Geography (3 cr.)

Geography G417 Land Use Analysis (3 cr.)

HPER R372 Interpretive Resources and Techniques (3 cr.)

Political Science Y204 Political Theory and Policy Analysis (3 cr.)

Sociology S305 Population and Human Ecology (3 cr.)

SPEA E400 Topics in Environmental Studies (3 cr.)

SPEA H316 Environmental Health (3 cr.)

SPEA H416 Environmental Health Policy (3 cr.)

Area Certificate Programs

The areas of study in which certificate programs are currently available are public affairs, public health, urban studies, and environmental studies.

Requirements for the Public Affairs and Public Health area certificates are the same on all campuses where they are offered. However, requirements for the Environmental Studies and the Urban Studies certificates vary by campus.

General Requirements

1. Students in good academic standing and enrolled in baccalaureate programs at Indiana University are eligible to apply for a certificate at the SPEA records office on their campus. Interested students must apply for a certificate before completing 15 hours (9 hours for Public Health) of applicable course work.
2. SPEA students cannot get an area certificate in the same area as their concentration.
3. A grade point average of 2.0 or higher is required in all course work credited toward the certificate.
4. The number of hours required for each certificate varies by campus and area. Campuses may also specify the number of transferred hours which may be applied toward the certificate.
5. When all certificate requirements have been met and the student has a baccalaureate degree, the certificate will be awarded.

Area Certificate in Environmental Studies

This certificate is available in *Bloomington*, *Indianapolis*, and *South Bend*, but the courses required are somewhat different on the various campuses.

The certificate is designed to introduce students to select aspects of current thinking and research on the nature, causes, and solutions to environmental problems. Bloomington students desiring greater depth should consider an Environmental Studies major in the College of Arts and Sciences or an Environmental Science and Management concentration in SPEA.

Bloomington

(Eight or nine courses)

One course in chemistry or physics.

One of the following courses:

Geography G107 Physical Systems of the Environment (3 cr.)

Geology G103 Earth Science: Materials and Processes (3 cr.)

Geology G111 Elements of Geology (3 cr.)

The following course:

Biology L350 Environmental Biology (3 cr.)

One of the following two options:

Economics E201 Introduction to Microeconomics (3 cr.) and Economics E202 Introduction to Macroeconomics (3 cr.) or Economics E300 Principles of Economics (6 cr.)

Both of the following courses:

Political Science Y313 Environmental Policy (3 cr.)

SPEA E400 Topics in Environmental Studies (3 cr.)

Two additional courses selected from the following:

Anthropology E427 Cultural Ecology (3 cr.)

Biology L473 Ecology (3-4 cr.)

Biology Z468 Limnology Lectures and Lab (4 cr.)

Chemistry C101 Elementary Chemistry I (3 cr.) or Chemistry C105 Principles of Chemistry (3 cr.)

Chemistry C341 Organic Chemistry (3 cr.)

Economics E360 Public Finance: Survey (3 cr.)

Economics E485 Social Control of Industry (3 cr.)

Geography G235 Maps and Aerial Photographs (3 cr.)

Geography G304 Meteorology and Physical Climatology (3 cr.)

Geography G315 Environmental Conservation (3 cr.)

Geography G320 Population Geography (3 cr.)

Geography G350 Field Methods in Physical Geography (3 cr.)

Geography G404 Introduction to the Geography of Soils (3 cr.)

Geography G405 Hydroclimatology (3 cr.)

Geography G407 Advanced Physical Geography (3 cr.)

Geography G417 Land Use Analysis (3 cr.)

Geology G300 Environmental and Urban Geology (3 cr.)

Geology G316 Mineral Fuels and Materials (3 cr.)

Geology G406 Introduction to Geochemistry (3 cr.)

Geology G415 Principles of Geomorphology (3 cr.)
 Geology G451 Principles of Hydrogeology (3 cr.)
 HPER R372 Interpretive Resources and Techniques (3 cr.)
 Mathematics/Psychology/SPEA K300 Statistical Techniques (3 cr.) or
 Mathematics/Psychology K310 Statistical Techniques (3 cr.)
 Physics P201 General Physics I (5 cr.)
 Physics P120 Energy and Technology (3 cr.) or
 Physics E250 The Environment and Physics (3 cr.)
 Physics P310 Environmental Physics (3 cr.)
 Sociology S305 Population and Human Ecology (3 cr.)
 SPEA E300 Introduction to Environmental Science (3 cr.)
 SPEA E400 Topics in Environmental Studies (3 cr.)
 SPEA H316 Environmental Health (3 cr.)

Indianapolis (Ten courses)

All of the following five courses:
 Biology K341 Principles of Ecology (3 cr.)
 Chemistry C165 Principles of Chemistry (5 cr.)
 Economics E201 Introduction to Microeconomics (3 cr.)
 Economics E202 Introduction to Macroeconomics (3 cr.)
 SPEA V372 Financial Management and Budgeting (3 cr.)

One of the following courses:
 SPEA E262 Environment: Problems and Prospects (3 cr.)
 SPEA E300 Introduction to Environmental Science (3 cr.)

One of the following courses:
 Geography G107 Physical Systems of the Environment (3 cr.)
 Geology G107 Geology: Resources and Man (3 cr.)
 Geology G110 Geology: The Earth's Environment (3 cr.)

Three of the following courses:
 SPEA E431 Water Supply and Wastewater Treatment (3 cr.)
 SPEA E451 Air Pollution and Control (3 cr.)
 SPEA E452 Solid and Hazardous Waste Management (3 cr.)
 SPEA H316 Environmental Health (3 cr.)
 SPEA K300 Statistical Techniques (3 cr.)
 SPEA V365 Urban Development and Planning (3 cr.)
 STAT 301 Elementary Statistical Methods (3 cr.)
 Biology K442 Population Biology (3 cr.)

Chemistry C207 Biochemistry (4 cr.)
 Chemistry C310 Analytical Chemistry (3 cr.)
 Chemistry C341 Organic Chemistry (3 cr.)
 Economics E485 Economics of Industry (3 cr.)
 Geography G303 Weather, Climate, and Man (3 cr.)
 Geography G304 Meteorology and Physical Climatology (3 cr.)
 Geography G315 Environmental Conservation (3 cr.)
 Geology G300 Environmental and Urban Geology (3 cr.)
 Geology G303 Geology: Maps and Air Photos (4 cr.)
 Geology G406 Introduction to Geochemistry (3 cr.)
 Geology G415 Principles of Geomorphology (3 cr.)
 Geology G451 Principles of Hydrogeology (3 cr.)
 Physics P218 General Physics (4 cr.)
 Sociology R465 Population and Human Ecology (3 cr.)

South Bend

(Seven courses)

Students must complete one of the following options:

Option I (for science majors)

All of the following:
 Biology L473 Ecology (3-4 cr.)
 Chemistry C303 Environmental Chemistry (3 cr.)
 Geography G315 Environmental Conservation (3 cr.)
 Sociology S305 Population and Human Ecology (3 cr.)
 SPEA E262 Environment: Problems and Prospects (3 cr.) or SPEA E300 Introduction to Environmental Science (3 cr.)
 SPEA E400 Topics in Environmental Studies (3 cr.)
 SPEA V365 Urban Development and Planning (3 cr.)

Option II (for nonscience majors)

All of the following:
 Biology L350 Environmental Biology (3 cr.)
 Geography G315 Environmental Conservation (3 cr.)
 Physics E250 The Environment and Physics (3 cr.)
 Sociology S305 Population and Human Ecology (3 cr.)
 SPEA E262 Environment: Problems and Prospects (3 cr.) or SPEA E300 Introduction to Environmental Science (3 cr.)
 SPEA E400 Topics in Environmental Studies (3 cr.)
 SPEA V365 Urban Development and Planning (3 cr.)

Area Certificate in Public Affairs

This certificate is available in *Bloomington, Indianapolis, Northwest, and South Bend* with the same courses required for all campuses.

The School of Public and Environmental Affairs offers the certificate in public affairs to provide an overview to the study of public policy, governmental organization, and public management as an enhancement to the major area of study in a student's undergraduate program. The interdisciplinary program requires 27 hours, of which at least 15 but not more than 21 hours must be in SPEA courses.

Certificate Requirements

(Nine courses)

Both of the following courses:

SPEA V170 Introduction to Public Affairs (3 cr.)
 SPEA V264 Urban Structure and Policy (3 cr.)
 One of the following courses:
 SPEA E262 Environment: Problems and Prospects (3 cr.)
 SPEA E300 Introduction to Environmental Science (3 cr.)

One course from two of the following groups A, B, and C:

- A. *Organizational Behavior*
 Business Z300 Organizational Behavior and Leadership (3 cr.)
 Business Z301 Organizational Behavior and Leadership (3 cr.)
 Business Z302 Managing and Behavior in Organizations (3 cr.)
 Criminal Justice P310 Introduction to Organizational Theory (3 cr.)
 Political Science Y390 Micropolitics and Organizational Behavior
 SPEA J310 Introduction to Administrative Processes (3 cr.)
- B. *Public Administration*
 SPEA V366 Managing Behavior in Public Organizations (3 cr.)
- C. *Law*
 Business L201 Legal Environment of Business (3 cr.)
 Criminal Justice P370 Legal Aspects of Criminal Justice Systems (3 cr.)
 Political Science Y304 Judicial Process and American Constitutional Law I (3 cr.)
 Political Science Y305 Judicial Process and American Constitutional Law II (3 cr.)
 SPEA J301 Criminal Law (3 cr.)
 SPEA J401 Criminal Law and Procedure (3 cr.)
 SPEA V376 Law and Public Policy (3 cr.)

Any four of the following courses:

Criminal Justice

Criminal Justice P100 Introduction to Criminal Justice (3 cr.) or SPEA J101 American Criminal Justice System (3 cr.)
 Criminal Justice P350 Science and Technology in Social Control Systems (3 cr.)
 Criminal Justice P381 History of Social Control in the U.S. (3 cr.)
 SPEA J302 Criminal Law Administration (3 cr.)
 SPEA J322 Introduction to Criminalistics (3 cr.)
 SPEA J370 Seminar in Criminal Justice (3 cr.)
Note: Criminal Justice indicates courses offered by the Department of Criminal Justice, College of Arts and Sciences, Bloomington. Courses listed as SPEA criminal justice courses are offered by SPEA on regional campuses.

Public Affairs

SPEA V260 Topics in Public Affairs (approved topic) (3 cr.)
 SPEA V346 Introduction to Government Accounting and Financial Reporting (3 cr.)
 SPEA V348 Management Science and Policy Analysis Methods (3 cr.)
 SPEA V365 Urban Development and Planning (3 cr.)
 SPEA V372 Financial Management and Budgeting (3 cr.)
 SPEA V373 Personnel Management in the Public Sector (3 cr.)
 SPEA V432 Labor Relations in the Public Sector (3 cr.)
 SPEA V442 Topics in Fiscal Management (3 cr.)
 SPEA V444 Public Administrative Organization (3 cr.)
 SPEA V449 Applied Policy Analysis (3 cr.)
 SPEA V450 Contemporary Issues in Public Affairs (approved topic) (3 cr.)
 SPEA V472 Policy Processes in the U.S. (3 cr.)

Geography

Geography G412 Urban Transportation Analysis (3 cr.)
 Geography G414 Regional Transport Systems (3 cr.)
 Geography G415 Urban Geographic Systems (3 cr.)
 Geography G417 Land Use Analysis (3 cr.)

Political Science

Political Science Y200 Citizen and the Courts (3 cr.)
 Political Science Y302 Public Bureaucracy in Modern Society (3 cr.)
 Political Science Y306 State Politics in the U.S. (3 cr.)
 Political Science Y394 Public Policy Analysis (3 cr.)

Sociology

- Sociology R329 Urban Sociology (3 cr.)
 Sociology R345 Crime and Delinquency (3 cr.)
 Sociology R346 Control of Crime (3 cr.)
 Sociology R480 Sociology and Social Policy (3 cr.)
 Sociology S320 Deviant Behavior and Social Control (3 cr.)
 Sociology S325 Criminology (3 cr.)
 Sociology S326 Sociology of Law (3 cr.)
 Sociology S361 Urban Sociology (3 cr.)

Area Certificate in Public Health

This certificate is available in *Bloomington*, *Indianapolis*, *Fort Wayne*, *Northwest*, and *South Bend* with the same courses required for all campuses. The curriculum is designed to provide students with a basic understanding of environmental health issues, current health policies, the structure of the medical care delivery system, administrative techniques used in health related facilities, and methods of determining the significance of various factors on health.

Certificate Requirements

(Six courses)

- All of the following three courses:
 SPEA H316 Environmental Health (3 cr.)
 SPEA H320 Health Systems Administration (3 cr.)
 SPEA H322 Epidemiology (3 cr.) or HPER H311 Human Disease and Epidemiology (3 cr.)

- Three of the following courses:
 AHLT W374 Medical Care I (3 cr.)
 AHLT W471 Medical Care II (3 cr.)
 Economics E387 Economics of Health Care (3 cr.)
 SPEA E400 Topics in Environmental Studies (approved topics) (3 cr.)
 SPEA E410 Environmental Toxicology (3 cr.)
 SPEA E431 Water Supply and Wastewater Treatment (3 cr.)
 SPEA E451 Air Pollution and Control (3 cr.)
 SPEA E452 Solid and Hazardous Waste Management (3 cr.)
 SPEA H342 Community Health Education (3 cr.) or HPER C403 Techniques of Public Health Education (3 cr.)
 SPEA H411 Long Term Care Administration (3 cr.)
 SPEA H416 Environmental Health Policy (3 cr.)
 SPEA H423 Disease Vector Control (3 cr.) or Biology K443 Medical Entomology (3 cr.)

- SPEA H428 Food Science and Sanitation (3 cr.)
 SPEA H433 Industrial Hygiene and Radiological Health (3 cr.)
 SPEA H441 Legal Aspects of Health Care Administration (3 cr.)
 SPEA H460 Techniques in Environmental Health (3 cr.)
 SPEA V450 Contemporary Issues in Public Affairs (approved topic) (3 cr.)

Area Certificate in Urban Studies

This certificate is available in *Bloomington* and *South Bend*, but the courses required are somewhat different on each campus. The undergraduate Urban Studies Certificate program is designed to introduce students to selected aspects of current thinking and research concerning the nature and problems of urban life and urban development.

Bloomington

(Eight courses)

- Each of the following three courses:
 SPEA K300 Statistical Techniques or approved option (3 cr.)
 SPEA V264 Urban Structure and Policy (3 cr.)
 SPEA V421 Metropolitan Development (3 cr.)

Both courses from one of the following groups:

Urban Administration

- SPEA V340 Urban Government Administration (3 cr.)
 SPEA V444 Public Administration and Organization (3 cr.)

Urban Economics

- Business G330 Principles of Urban Economics (3 cr.)
 Business G430 Economic Analysis of Urban Problems and Policies (3 cr.)

Urban Environmental Analysis

- Geology G300 Environmental and Urban Geology (3 cr.)
 Geology G417 Land Use Analysis (3 cr.)

Urban Finance

- SPEA V372 Financial Management and Budgeting (3 cr.)
 SPEA V442 Topics in Fiscal Management (approved topics) (3 cr.)

Urban Land

- Business R300 Principles of Real Estate (3 cr.)
 Business L408 Real Estate Law (3 cr.)

Urban Policy Analysis

- Political Science Y308 Urban Politics (3 cr.)

- Political Science Y394 Public Policy Analysis (3 cr.)

Urban Services Delivery Systems

- Social Work S352 Social Welfare Delivery Systems (3 cr.)
 SPEA V450 Contemporary Issues in Public Affairs (approved topic) (3 cr.)

Urban Society

- Sociology S309 The Community (3 cr.)
 Sociology S361 Urban Sociology (3 cr.)

Urban Structure

- Geography G314 Urban Geography (3 cr.)
 Geography G415 Urban Geographic Systems (3 cr.)

Urban Transportation

- Business T315 Urban Transportation and Public Policy (3 cr.)
 Geography G412 Urban Transportation Analysis (3 cr.)

Three additional courses from above or three courses from the following:

- Anthropology E380 Urban Anthropology (3 cr.)
 Folklore F310 American Urban and Ethnic Folklore (3 cr.)
 History A347 American Urban History (3 cr.)
 SPEA V450 Contemporary Issues in Public Affairs (approved topic) (3 cr.)

South Bend

(Seven courses)

- All of the following:
 Business G330 Principles of Urban Economics (3 cr.)
 Geography G314 Urban Geography (3 cr.)
 History A347 American Urban History (3 cr.)
 Political Science Y308 Urban Politics (3 cr.)
 Sociology S306 Urban Society (3 cr.)
 SPEA V264 Urban Structure and Policy (3 cr.)
 SPEA V365 Urban Development and Planning (3 cr.)

Course Descriptions

Undergraduate Courses

The abbreviation "P" refers to course prerequisites and "R" to recommended courses. The number of hours of credit is indicated in parentheses following the course title. Courses are listed in four groups: environmental, public health, criminal justice, and public affairs.

Environmental Courses

E200 Environment and People (3 cr.) An interdisciplinary examination of the problems of population, pollution, and natural resources and their implications for society. Credit not given for both E200 and E262.

E262 Environment: Problems and Prospects (3 cr.) A survey of different aspects of the interaction between humans and their environment, with an emphasis on the complex interactions within systems. Subjects discussed include population levels, natural resources, energy use, and various types of pollution and means of controlling them. Credit not given for both E200 and E262.

E300 Introduction to Environmental Science (3 cr.) P: a statistics course. Application of principles from life and physical sciences to the understanding and management of the environment. Emphasis will be placed on (1) the physical and biological restraints on resource availability and use, and (2) the technological and scientific options to solving environmental problems.

E325 Computer Programming for Environmental Science (2 cr.) Fundamentals of computer programming with applications in environmental science. Use of package subroutines, FORTRAN on personal computers, plotting graphs from FORTRAN, and using FORTRAN package models. Emphasis on actual writing and execution of programs.

E326 Mathematical Methods in Environmental Science (3 cr.) P: M119 or M215, C201 or K201, and K300; or permission of instructor. Mathematical modeling in environmental science. Expressing problems as equations. Applications and numerical evaluation of derivatives and integrals. Derivation and solution of differential equations. Use of package FORTRAN subroutines in problem solving. Statistics applied to environmental science.

E360 Introduction to Biological Resources (3 cr.) This course provides the necessary background for students interested in fisheries, wildlife, or forest management who have had little course work or experience with the taxonomy, ecology or natural history of plants or animals.

E400 Topics in Environmental Studies (3 cr.) An interdisciplinary consideration of specific environmental topics. May be repeated for credit.

E410 Environmental Toxicology (3 cr.) Study of toxic mechanisms, pathology, and disease development resulting from exposure to biological and chemical agents in the environment.

E431 Water Supply and Wastewater Treatment (3 cr.) Health and ecological premises for water and wastewater treatment; principles of water supply; treatment, distribution, and construction; basis for water standards and laboratory examinations; wastewater disposal methods and construction for private installations, institutions, municipalities, and industries; waterquality control with respect to wastewater pollution.

E440 Wetlands: Biology and Regulation (3 cr.) This course trains students to evaluate wetlands to comply with federal, state, and local regulations. It examines the principles that inspired these regulations and assesses the consequences. It seeks to relate the breadth and strength of available scientific knowledge to public policy goals.

E451 Air Pollution and Control (3 cr.) Type, sources, and behavior of air contaminants; economic, social, and health hazard aspect of air pollutants; principles of evaluation; indices of pollution and their worth; control measures, organization, and administration of community control programs.

E452 Solid and Hazardous Waste Management (3 cr.) Types and sources of solid waste; collection methods; disposal techniques: sanitary landfill, incineration, composting, reclaiming, or recycling; advantages and disadvantages of each; special and hazardous waste handling; operation and management of solid and hazardous waste programs.

E455 Limnology (4 cr.) Limnology is the ecology of inland lakes and streams, combining the principles of biology, chemistry, geology, and physics to understand how they function. The effects of human perturbation on aquatic systems will be highlighted in both lectures and laboratory work to aid student understanding of the concepts involved.

E460 Fisheries and Wildlife Management (3 cr.) This course first reviews taxonomy, vertebrate biology, and population ecology, then introduces the student to a variety of conflicts concerning fisheries and wildlife. Cases examine endangered species, overharvesting, maximum sustained yield, habitat evaluation, and recreational use.

E461 Fisheries and Wildlife Management Laboratory (3 cr.) P or concurrent: E460, or permission of instructor. Practical experience course where students identify fish and wildlife in the field for the purpose of evaluating the effectiveness of and making recommendations for change to existing wildlife plans.

E470 Elements of Fluid Mechanics (3 cr.) Introduction to fundamental concepts of fluid mechanics which relate to environmental science. Topics are selected from three disciplines. From hydraulics: hydrostatics, flow-through pipes, and open channels. From water surface hydrology: water balances, stream-flow measurements, and calculations. From groundwater hydrology: Darcy's Law, flow nets, and pumping tests.

E475 Techniques of Environmental Science (3 cr.) P: E300. Principles and methods of sampling, collection, measurement, analysis, interpretation and presentation of data concerning environmental science. Through lab demonstrations and field work, students will become familiar with instrumentation and analytical methods currently used in environmental analysis. Team instruction will be used to demonstrate techniques.

Public Health Courses

H316 Environmental Health (3 cr.) An orientation to the broad concerns of environmental and health interactions. Topics considered include vector control food sanitation, air quality control, water and wastewater treatment and quality control, solid and hazardous waste management, industrial hygiene, radiation safety, and public safety, as well as related policy and administrative techniques.

H320 Health Systems Administration (3 cr.) An overview of the U.S. health care delivery system. It examines the organization, function, and role of the system; current system problems; and alternative systems or solutions.

H322 Principles of Epidemiology (3 cr.) A basic overview of epidemiologic methodology and techniques. Both communicable and chronic disease risk factors will be discussed, along with data acquisition, analysis techniques, and current published epidemiological studies.

H342 Community Health Education (3 cr.) A study of theory and practice in the field of professional health education. The process of behavioral change is examined. Procedures for the planning, delivery, and evaluation of health education practices are considered.

H352 Health Finance and Budgeting (3 cr.) P: Business A201. A study of the financial management of health care facilities based on generally accepted business principles. Accounting and managerial control of cash, accounts receivable, inventory control, budgeting, and cost control, as well as accounting and evaluation of short- and long-term debt will be examined.

H371 Human Resource Management in Health Care Facilities (3 cr.) This course covers the function of management, which is concerned with the acquisition, development, and use of human resources in the field of health care delivery. Labor relations relating to health care delivery are also included.

H402 Hospital Administration (3 cr.) P: SPEA H320. The study of organization, structure, function, and fiscal operations within hospitals. The role of the hospital in the community, relationship to official and voluntary health agencies, coordination of hospital departments, and managerial involvement will be examined.

H411 Long Term Care Administration (3 cr.) Nursing home regulations, legal aspects, and insurance; personnel management; medical records; diet and food service; rehabilitation; nursing services; psychiatric aspects in handling of geriatric patients; professional standards; use of volunteer groups.

H416 Environmental Health Policy (3 cr.) Study of professional requirements and duties of the environmental health functions within health agencies; consideration of applicable laws and standards in each environmental health function; environmental health program planning, evaluation, implementation, and personnel responsibilities.

H423 Disease Vector Control (3 cr.) Survey of animal and insect disease vectors and economic pests of public health significance; vector and pest identification and control procedures; survey of the classification, application, and restriction of pesticides in controlling disease vectors and economic pests commonly found in the U.S.

H428 Food Science and Sanitation (3 cr.) Basic concepts of food technology with emphasis on methods and procedures in food processing to minimize contamination and to prevent food-related illness. Federal,

state, and local food laws and inspection procedures will be examined.

H433 Industrial Hygiene and Radiological Health (3 cr.) Fundamental concepts of industrial and occupational health hazards of a biological, chemical, or physical nature; evaluation of hazards, methods of control, and safety protection; Occupational Safety and Health Act standards. Principles of radioactivity; characteristics of ionizing and nonionizing radiation; detection and measurement of radiation dose and exposure, radiation uses, and hazards; methods for controlling radiation hazards.

H441 Legal Aspects of Health Care Administration (3 cr.) An overview of the liability and legal responsibility, as well as legal recourse health care facilities may exercise. This course will discuss policies and standards relating to health facility administration. Also included is a discussion of financial aspects unique to the hospital/health care facility environment, such as third-party payments and federal assistance.

H448 Public Health Education Methods (3 cr.) Usual techniques of group work with investigations of social and psychological factors that determine effectiveness in promoting public health. Laboratory time provides opportunity for competence in group work and in design and use of promotional materials.

H455 Topics in Public Health (1-3 cr.) Extensive discussion of selected topics in public health. The topic may change from semester to semester as per resource availability and student demand.

H460 Techniques in Environmental Health (3 cr.) P: H316. Basic physical, chemical, and biological examinations and standards for potable water quality, wastewater treatment determinations, and stream pollution control. Basic physical, chemical, and biological (ergonomic) examinations used in industrial hygiene and air pollution control. Instruction in basic laboratory skills and techniques for performing these examinations.

H465 Public Health Practicum (2 cr.) P: senior standing. Supervised orientation, observation, and instruction with local and state level health-related agencies and facilities. Primary emphasis will be placed on the students' areas of concentration.

H466 Public Health Field Experience (1 cr.) P: H465. Supervised advanced training in professional and technical functions in public health; guided student activity and performance in professional public health functions. Individualized programs may be

arranged to suit the students' areas of concentration.

H474 Issues in Public Health (3 cr.) P: H320 and senior standing or permission of instructor. This course will examine current issues in public health and governmental and private initiatives to resolve these issues.

Criminal Justice Courses

J101 American Criminal Justice System (3 cr.) Introduction to the criminal justice system of the United States and its function in contemporary society.

J301 Criminal Law (3 cr.) The development, limitations, and application of substantive criminal law utilizing the case-study method.

J302 Criminal Law Administration (3 cr.) Criminal law application and procedure from the initiation of police activity through the correctional process, utilizing the case-study method.

J303 Evidence (3 cr.) The rules of law governing proof at trial of disputed issues of fact; burden of proof; presumptions and judicial notice; examination, impeachment, competency, and privileges of witnesses; hearsay rule and exceptions—all related as nearly as possible to criminal, as opposed to civil, process.

J304 Legal Aspects of Correction (3 cr.) Legal problems from conviction to release: pre-sentence investigations, sentencing, probation and parole, incarceration, loss and restoration of civil rights.

J305 Juvenile Justice Process (3 cr.) Current developments in the legal, administrative, and operational aspects of the juvenile justice system.

J306 Trial Courts and Criminal Justice (3 cr.) This course examines the characteristics and operation of criminal trial courts. The course will focus on how defendants are processed through trial courts, the roles of various participants, and the potential for reform.

J310 Introduction to Administrative Processes (3 cr.) Introduction to principles of management and systems theory for the administration of criminal justice agencies.

J320 Criminal Investigation (3 cr.) Theory of investigation, crime scene procedures, interviews, interrogations, surveillances, and sources of information; collection and preservation of physical evidence; investigative techniques in specific crimes.

J321 Introduction to American Law Enforcement (3 cr.) A broadly based study of the operations and interrelationships of the American police system, including discussion of the limitations of the police function,

interjurisdictional matters, and intra-agency processes.

J322 Introduction to Criminalistics (3 cr.) R: J301. The broad range of physical evidence developed through the investigative process, and methods of identifying and establishing validity and relevance through forensic laboratory techniques.

J326 Highway Safety Administration (3 cr.) R: J101. A survey of the agencies and institutions in the highway transportation system, their roles, and function, with emphasis on criminal justice agencies.

J331 Introduction to Corrections (3 cr.) A survey of contemporary correctional systems, including analysis of federal, state, and local corrections; adult and juvenile facilities and programs; probation and parole.

J370 Seminar in Criminal Justice (3 cr.) Selected contemporary topics in criminal justice. May be repeated for credit.

J376 Principles of Public Safety (3 cr.) Examination of threats to public safety and of governmental response at various levels to those threats. Treatment of such areas as transportation and highway threats; occupational safety and health; criminal threats; emergency and disaster planning; consumer protection; and fire control and suppression. Discussion of techniques to identify and measure risk, the acceptability of risk, and governmental attempts to control risk.

J401 Criminal Law and Procedure (3 cr.) The development, limitations, and applicability of criminal law and procedure under the Constitution of the United States. Not open to students with credit for J301 and J302.

J433 Institutional Corrections (3 cr.) The history and development of the jail, penitentiary, prison, and reformatory. Analysis and evaluation of contemporary imprisonment.

J439 Crime and Public Policy (3 cr.) This course is an introduction to the major efforts designed to control or reduce crime. A review of existing knowledge is followed by an investigation of current crime control theories, proposals, and programs.

J440 Community Corrections (3 cr.) An introduction to correctional alternatives to incarceration that focus on the reintegration of the offender while remaining in the community. Because of their extensive use, considerable attention is given to probation and parole. Other topics include diversion, community residential programs, restitution, halfway house, and home detention.

J445 Trends in Corrections (3 cr.) Analysis and evaluation of contemporary correctional

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

J460 Urban Crime: Police and Their Clients (3 cr.) In-depth examination of crime as an urban policy problem, focusing on the role of police and victims in defining crime as a policy problem, and their role in seeking to reduce the incidence of crime.

J470 Seminar in Criminal Justice (3 cr.) P: senior standing or consent of instructor. Emphasizes current developments in legal, administrative, and operational aspects of the criminal justice system.

J480 Research in Criminal Justice (1-6 cr.) P: junior standing and consent of instructor. Individual research under guidance of faculty member.

Public Affairs Courses

K300 Statistical Techniques (3 cr.) P: M014 or equivalent. R: M118. An introduction to statistics. Nature of statistical data. Ordering and manipulation of data. Measures of central tendency and dispersion. Elementary probability. Concepts of statistical inference decision: estimation and hypothesis testing. Special topics discussed may include regression and correlation, analysis of variance, nonparametric methods. Credit not given for both K300 and either E270, S250-S251, or K310.

V170 Introduction to Public Affairs (3 cr.) Broad coverage of public affairs through critical and analytical inquiry into policy making at all levels of government. Particular emphasis on intergovernmental relations as they affect policy in the federal system.

V260 Topics in Public Affairs (3 cr.) Study of selected issues in public affairs. Topics vary from semester to semester. May be repeated for credit.

V264 Urban Structure and Policy (3 cr.) An introduction to urban government and policy issues. Topics include: urban government structure and policy making, the economic foundations and development of cities, demography of cities and suburbs, land-use planning, and other selected urban policy problems.

V270 Survey of Administrative Techniques (3 cr.) Introduction to principles of management and systems theory for the administration of public agencies. Credit not given for both V270 and J310.

V340 Urban Government Administration (3 cr.) Structure of local government in the U.S., federalism and intergovernmental relations, policy problems faced by local officials, the implications of these problems

for local officials, and the implications of these problems for local government administrators.

V346 Introduction to Government Accounting and Financial Reporting (3 cr.) P: Business A201. An introduction to government accounting, including comparison with accounting for the private sector, intended as background for use of financial administrators. The course deals primarily with municipal accounting. Not open to students with more than 6 credit hours of accounting.

V348 Management Science and Policy Analysis Methods (3 cr.) P: K300, M118, or M125. Introduction to management science models and methods for policy analysis and public management. Methods include decision analysis, linear programming, queueing analysis, and simulation. Computer-based applications are included. Prior familiarization with computers is recommended, though not required.

V350 Introduction to Development Administration (3 cr.) Introduction to the administration of development activities in poor countries. Examines key problems, including the complexity of development, the interplay of external donors and domestic administration, and the difficulties of organizing and managing development efforts. Combines cases and textual readings, allowing the student to analyze actual programs, policies, and projects.

V352 Personal Career Planning (1 cr.) 2: sophomore standing. Investigation of careers, the world of work, and the career-planning process. The focal point is on students and their goals. Provides assistance in developing practical, meaningful, and realistic insights into the nature of making a public career choice in today's world. Credit not awarded for both V352 and Business X420.

V360 Public Management (3 cr.) This course is an examination of the management process in public organizations in the United States. Special attention will be given to external influences on public managers, the effects of the intergovernmental environment, and, in particular, problems of management in a democratic, limited government system.

V365 Urban Development and Planning (3 cr.) P: V264, K300. This course identifies the major problems associated with urban development in the U.S., and investigates the potential of public planning strategies and tools to deal with these problems. An emphasis is placed on the application of analytical approaches to problem definition and solution.

V366 Managing Behavior in Public Organizations (3 cr.) This course provides an introduction to the management of people in public organizations. Focus is on behavioral science in management and related analytical and experiential applications.

V368 Managing Government Operations (3 cr.) P: V348. Application of analytical techniques to operating decisions in public management sector. Cases are used extensively to illustrate the application of techniques (such as charting, capacity and demand analysis, forecasting, performance measurement, decision analysis, queueing/simulation, Markov modeling, and cost-effective analysis) to design, scheduling, inventory assignment, transportation, and replacement decisions.

V370 Research Methods in the Applied Social Sciences (3 cr.) P: K300 or equivalent. This course will introduce the student to the basic methods, issues, analytical techniques, and ethical considerations of evaluation research.

V372 Financial Management and Budgeting (3 cr.) R: E360. Study of fiscal management in public agencies, including revenue administration, debt management, and public budgeting. Emphasis will be given to the fiscal processes in state and local agencies.

V373 Personnel Management in the Public Sector (3 cr.) The organization and operation of public personnel management systems with emphasis on concepts and techniques of job analysis, position classification, training, affirmative action, and motivation.

V375 Emergency Services Administration (3 cr.) An overview of management principles and functional components of EMS systems.

V376 Law and Public Policy (3 cr.) The purpose of this course is to provide a basic understanding of the origins, process, and impact of law in the making and implementing of public policy. The course's major objective is to provide students with the substantive concepts necessary to understand the judicial system and law in its various forms.

V380 Internship in Public and Environmental Affairs (1-6 cr.) P: permission of instructor. Open to interested students upon approval of the faculty. Students are placed with public agencies or governmental units for assignment to a defined task relevant to their educational interests in public affairs. Tasks may involve staff work or research. Full-time participants may earn up to 6 credit hours. May be repeated for

credit. Course is graded S/F (Satisfactory/Fail).

V390 Readings in Public and Environmental Affairs (1-3 cr.) P: permission of instructor. Independent readings and research related to a topic of special interest to the student. Written report required. May be repeated for credit.

V391 Honors Readings in Public and Environmental Affairs (1-3 cr.) P: approval of instructor and SPEA honors adviser. Restricted to students in SPEA Honors Program. May be repeated for credit.

V421 Metropolitan Development (3 cr.) Discussion of the process of development in metropolitan regions. Includes topics such as economic development, land use evolution, and demographic change. Consideration of relevant policy issues.

V422 Transportation Policy Analysis (3 cr.) This course examines current issues in transportation to identify the key analytic and management issues that must be considered in developing effective public policy. Particular emphasis will be placed on examining the rationale for and actual impact of existing government policies, and on analyzing the likely impacts of policy alternatives.

V432 Labor Relations in the Public Sector (3 cr.) An introductory overview of labor relations in the public sector. Course includes the development, practice, and extent of the collective bargaining process and administration of the labor agreement by state and local governments.

V442 Topics in Fiscal Management (3 cr.) P: V372 or permission of instructor. Comprehensive study of techniques of public fiscal management, primarily at the state and local level, and discussion of current issues. Course may be repeated for different topics.

V444 Public Administrative Organization (3 cr.) A review of research findings and analysis of the operation of public agencies and their performance.

V447 Federal Budget Policy (3 cr.) Examination of the institutions and processes involved in putting together the annual federal budget, with emphasis on the role of the Appropriations and Budget Committees in Congress and on the White House and the Office of Management and Budget in the executive branch. Selected major policy areas will be considered.

V449 Applied Policy Analysis (3 cr.) P: V348. Discussion of the role of policy analysis in government. Applications of analytical tools to substantive policy areas such as

transportation, community development, education, poverty, manpower, and health.

V450 Contemporary Issues in Public Affairs (1-3 cr.) Extensive analysis of selected contemporary issues in public affairs. Topics vary from semester to semester. May be repeated for credit.

V451 Social Policy and the Aging (3 cr.) A focused examination of government and the elderly. Public policy and administration of income, health, housing, employment, and social service programs, as well as analysis of the context of aging policy.

V457 Management Science in the Public Sector (3 cr.) P: V348, C201, K300. An intermediate treatment of management science methods with primary application to public managerial decision support. Topics include network analysis, queueing, simulation, and others. Computer-based analysis is emphasized.

V461 Computer Applications in Public Affairs (3 cr.) P: K201. This course is designed to provide students with the essentials of computer hardware and software needed to operate effectively in a public sector environment. The course will emphasize public sector applications using software packages or microcomputers and minicomputers.

V471 Urban Management Systems (3 cr.) P: V348 and senior standing. This course is designed to extend the student's skill in applying a variety of qualitative and quantitative methods to the problems of urban government planning and management.

V472 Policy Processes in the U.S. (3 cr.) P: senior standing. Intended as an integrative senior course, primarily for SPEA students. Course content includes analytical perspectives of the policy process, the centers of policy, and the public interest. Selected cases involving problem analysis and decision making on public issues are included, as well as discussion of current policy issues.

V473 Management Applications Seminar (3 cr.) The purpose of this seminar is to provide students with an opportunity to apply the techniques they have learned to an actual situation. Special attention will be paid to feasible as contrasted to desirable solutions. Emphasis will be given to the contextual factors involved in developing feasible solutions.

V490 Directed Research in Public and Environmental Affairs (1-3 cr.) To be arranged with the individual instructor and approved by the chairperson of the

undergraduate program. May be repeated for credit.

V491 Honors Research in Public and Environmental Affairs (1-3 cr.) P: approval of instructor and SPEA honors adviser. Restricted to students in the SPEA Honors Program. May be repeated for credit.

V499 Honors Thesis (3 cr.) Required of seniors in the Honors Program. Research and paper to be arranged with individual instructor and approved by the campus SPEA Honors Program director. May be repeated for credit.

Faculty

Agranoff, Robert, Ph.D. (University of Pittsburgh, 1967), Professor of Public and Environmental Affairs (Graduate School)

Allen, David, J.D. (Indiana University, 1967), Adjunct Professor of Public and Environmental Affairs

Andrews, Dennis, M.P.A. (Ball State University, 1981), Adjunct Lecturer of Public and Environmental Affairs (IUE)

Apostolides, Anthony, Ph.D. (University of Oxford, England, 1969), Assistant Professor of Public and Environmental Affairs (IUSB)

Baker, John, J.D. (Indiana University, 1971), Adjunct Professor of Public and Environmental Affairs

Baker, Randall, Ph.D. (University of London, 1968), Director, International Programs; Professor of Public and Environmental Affairs (Graduate School)

Barnes, A. James, J.D. (Harvard University, 1967), Dean and Professor of Public and Environmental Affairs

Baumer, Terry L., Ph.D. (Loyola University, 1980), Associate Professor of Public and Environmental Affairs (IUPUI)

Beranek, William, Ph.D. (California Institute of Technology, 1973), Adjunct Associate Professor of Public and Environmental Affairs (IUPUI)

Berry, Bonnie, Ph.D. (Ohio State University, 1983), Associate Professor of Public and Environmental Affairs (IUSB)

Black, William R., Ph.D. (University of Iowa, 1969), Professor of Public and Environmental Affairs; Professor of Geography (College of Arts and Sciences) (Graduate School)

Bonser, Charles F., D.B.A. (Indiana University, 1965), Professor of Public and Environmental Affairs and Director, Institute for Development Strategies; Professor of Business Administration (School of Business, Graduate School)

Buhner, John, Ph.D. (Indiana University, 1963), Professor Emeritus of Public and Environmental Affairs; Professor Emeritus of Political Science (IUPUI)

Caldwell, Lynton K., Ph.D. (University of Chicago, 1943), Professor Emeritus of Public and Environmental Affairs; Arthur E. Bentley Professor Emeritus of Political Science

Carrington, Michael D., M.A.L.S. (Valparaiso University, 1971), Adjunct Associate Professor of Public and Environmental Affairs (IUSB)

Chu, David K. W., Ph.D. (Indiana University, 1985), Assistant Professor of Public and Environmental Affairs (IUPUI) (Graduate School)

Conour, William, J.D. (Indiana University, 1974), Adjunct Associate Professor of Public and Environmental Affairs (IUPUI)

DeCoster, Thomas A., Ph.D. (University of Notre Dame, 1968), Director, Executive Education; Professor of Public and Environmental Affairs (IUPUI)

DeMougin, Stephen, M.B.A. (Indiana University, 1984), Adjunct Lecturer of Public and Environmental Affairs (IUPUI)

Dunning, Jeremy D., Ph.D. (University of North Carolina, 1978), Associate Dean, Research and Graduate Development; Director, Industrial Research Liason Program (R&GD); Associate Professor of Public and Environmental Affairs (part-time); and Associate Professor of Geology

Edwards, Marie, Ph.D. (Northwestern University, 1956), Adjunct Associate Professor of Political Science (School of Public and Environmental Affairs) (IUN)

Freund, Deborah A., Ph.D. (University of Michigan, 1980), Director, Health Services Research Center; Professor of Public and Environmental Affairs; Adjunct Professor of Economics (College of Arts and Sciences); Adjunct Professor of Medicine (IUPUI) (Graduate School)

Froebe, Doris, Ph.D. (University of Maryland, 1970), Chairman and Professor of Nursing Administration Graduate Program; Professor of Public and Environmental Affairs (part-time) (IUPUI)

Gleeson, Michael E., Ph.D. (Syracuse University, 1973), Associate Professor of Public and Environmental Affairs (IUPUI)

Good, David H., Ph.D. (University of Pennsylvania, 1985), Assistant Professor of Public and Environmental Affairs (Graduate School)

Good, Richard P., J.D. (Indiana University, 1959), Adjunct Associate Professor of Public and Environmental Affairs (IUPUI)

Grant, Jane, Ph.D. (University of California, Berkeley, 1981), Assistant Professor of Public and Environmental Affairs (IPFW) (Graduate School)

Griffis, Brandon, L.L.B. (Indiana University, 1949), Adjunct Associate Professor of Public and Environmental Affairs (IUE)

Grimes, Stephen, Ph.D. (Indiana University, 1975), Adjunct Professor of Public and Environmental Affairs (IUPUI)

Haitjema, Hendrick, Ph.D. (University of Minnesota, 1982), Associate Professor of Public and Environmental Affairs, Associate Professor of Geology (part-time); Adjunct Associate Professor of Geology (IUPUI) (Graduate School)

Harlow, Karen, Ph.D. (University of Texas, 1981), Associate Professor of Public and Environmental Affairs (IUPUI)

- Heard, Chinita A., Ph.D. (Florida State University, 1988), Assistant Professor of Public and Environmental Affairs (IPFW)
- Heier, Edward, Ph.D. (Syracuse University, 1985), Assistant Professor of Public and Environmental Affairs (IUN)
- Herman, Michael, M.A. (Valparaiso University, 1973), Adjunct Lecturer of Public and Environmental Affairs (IUN)
- Hieftje, Gary M., Ph.D. (University of Illinois, 1969), Professor of Public and Environmental Affairs (part-time); Distinguished Professor of Chemistry (College of Arts and Sciences) (Graduate School)
- Hites, Ronald A., Ph.D. (Massachusetts Institute of Technology, 1966), Distinguished Professor of Public and Environmental Affairs; Professor of Chemistry (part-time) (Graduate School)
- Hojnacki, William P., Ph.D. (University of Notre Dame, 1977), Assistant Dean and Director, Division of Public and Environmental Affairs; Associate Professor of Public and Environmental Affairs (IUSB) (Graduate School)
- Holowaty, Michael O., Ph.D. (University of Breslau, 1944), Director of Laboratories for Environmental Research; Adjunct Professor of Public and Environmental Affairs (IUN)
- Hoole, Francis W., Ph.D. (Northwestern, 1970), Associate Dean, Graduate School; Professor of Political Science; Professor of Public and Environmental Affairs (part-time) (Graduate School)
- Hopkins, Jack W., Ph.D. (University of Florida, 1966), Professor of Public and Environmental Affairs (Graduate School)
- Hug, Richard W., Ph.D. (Syracuse University, 1985), Assistant Professor of Public and Environmental Affairs (IUN)
- Irvine, John M., J.D. (Indiana University, 1979), Director, Student Legal Services; Adjunct Assistant Professor of Public and Environmental Affairs
- Jain, Chaman L., Ph.D. (Indiana University, 1975), Adjunct Assistant Professor of Public and Environmental Affairs
- Johnson, Carlyn E., J.D. (Indiana University, 1963), Professor of Public and Environmental Affairs; Adjunct Professor of Law (IUPUI)
- Johnson, John, M.D. (Indiana University, 1974), Adjunct Associate Professor of Public and Environmental Affairs (IUN)
- Jones, William, M.S. (University of Wisconsin, 1972), Director, Environmental Systems Application Center; Adjunct Lecturer of Public and Environmental Affairs
- Jumper, Roy, Ph.D. (Duke University, 1955), Provost, Cooperative Program in Malaysia;
- Professor of Public and Environmental Affairs (Graduate School)
- Kiesling, Herbert J., Ph.D. (Harvard University, 1966), Professor of Economics (College of Arts and Sciences, Graduate School); Professor of Public and Environmental Affairs
- Kragie, John H., Ed.D. (Indiana University, 1981), Associate Professor Emeritus of Public and Environmental Affairs
- Krauss, John, J.D. (Indiana University, 1976), Adjunct Assistant Professor of Public and Environmental Affairs (IUPUI)
- Krutilla, Kerry, Ph.D. (Duke University, 1987), Assistant Professor of Public and Environmental Affairs
- Lehnen, Robert G., Ph.D. (University of Iowa, 1968), Professor of Public and Environmental Affairs (IUPUI) (Graduate School)
- Ludlow, H. Glenn, Ph.D. (Indiana University, 1950), Professor Emeritus of Education; Professor Emeritus of Public and Environmental Affairs
- Ludwin, William G., Ph.D. (State University of New York, 1976), Assistant Dean and Director, Division of Public and Environmental Affairs; Associate Professor of Public and Environmental Affairs (IPFW) (Graduate School)
- Martin, Gary L., M.P.A. (Indiana University, 1976), Adjunct Lecturer of Public and Environmental Affairs (IUN)
- Maxfield, Michael G., Ph.D. (Northwestern University, 1979), Director, Undergraduate Programs; Associate Professor of Public and Environmental Affairs; Associate Professor of Criminal Justice (part-time) (Graduate School)
- McGregor, Eugene B., Jr., Ph.D. (Syracuse University, 1969), Professor of Public and Environmental Affairs; Professor of Political Science (part-time) (Graduate School)
- McHugh, Gerald, D.B.A. (George Washington University, 1973), Associate Professor of Public and Environmental Affairs (IUPUI)
- McSwane, David Z., H.S.D. (Indiana University, 1980), Assistant Professor of Public and Environmental Affairs (IUPUI)
- Meinschein, Warren G., Ph.D. (University of Texas, 1951), Professor Emeritus of Public and Environmental Affairs; Professor Emeritus of Geochemistry
- Mendelsohn, Robert I., Ph.D. (Michigan State University, 1970), Associate Professor of Public and Environmental Affairs (IUPUI) (Graduate School)
- Merritt, John S., M.P.A. (Indiana University, 1977), Director, Academic Services; Adjunct Lecturer of Public and Environmental Affairs
- Metzger, Richard H., Ed.D. (University of Illinois, 1968), Associate Professor of Public and Environmental Affairs (IUSB)
- Mikesell, John L., Ph.D. (University of Illinois, 1969), Associate Dean for Academic Affairs; Professor of Public and Environmental Affairs (Graduate School)
- Miller, Theodore K., Ph.D. (University of Iowa, 1970), Associate Professor of Public and Environmental Affairs; Associate Professor of Geography (part-time) (College of Arts and Sciences) (Graduate School)
- Moffatt, Charles, Ph.D. (Tulane University, 1968), Associate Professor of Public and Environmental Affairs
- Moran, Emilio, Ph.D. (University of Florida, 1975), Associate Professor of Anthropology; Associate Professor of Public and Environmental Affairs (part-time)
- Morgan, E. Phillip, Ph.D. (Syracuse University, 1970), Director, International Development Institute; Associate Professor of Public and Environmental Affairs (Graduate School)
- Mullins, Daniel R., Ph.D. (Syracuse University, 1989), Assistant Professor of Public and Environmental Affairs
- Nelson, Craig E., Ph.D. (University of Texas, 1966), Professor of Public and Environmental Affairs (part-time); Professor of Zoology (College of Arts and Sciences)
- Nusbaum, Shirley, M.P.A. (Indiana University, 1982), Assistant Dean of the Faculties for Faculty Records; Lecturer of Public and Environmental Affairs (part-time) (IUPUI)
- O'Lessker, Karl, Ph.D. (Indiana University, 1959), Professor of Public and Environmental Affairs (Graduate School)
- O'Meara, Patrick, Ph.D. (Indiana University, 1970), Professor of Public and Environmental Affairs; Director, African Studies Program; Professor of Political Science (College of Arts and Sciences) (Graduate School)
- Oster, Clinton V., Jr., Ph.D. (Harvard University, 1977), Associate Dean, Bloomington Programs; Professor of Public and Environmental Affairs; Professor of Business (part-time) (Graduate School)
- Ostrom, Elinor, Ph.D. (University of California, Los Angeles, 1965), Professor of Political Science; Professor of Public and Environmental Affairs (part-time); Co-Director, Workshop in Political Theory and Policy Analysis (College of Arts and Sciences) (Graduate School)
- Ottensmnn, John R., Ph.D. (University of North Carolina at Chapel Hill, 1974), Associate Professor of Public and Environmental Affairs; Adjunct Associate Professor of Geography (IUPUI)
- Owen, C. James, Ph.D. (University of Notre Dame, 1973), Associate Professor of Public and Environmental Affairs (IPFW) (Graduate School)
- Palmer, Judith, G., J.D. (Indiana University, 1974), Vice President for Planning, Indiana University; Associate Professor of Public and Environmental Affairs (part-time)
- Parkhurst, David F., Ph.D. (University of Wisconsin, 1979), Professor of Public and Environmental Affairs; Professor of Biology (part-time) (College of Arts and Sciences) (Graduate School)
- Parks, Roger B., Ph.D. (Indiana University, 1979), Director, Center in Policy and Public Management; Associate Professor of Public and Environmental Affairs (Graduate School)
- Parrish, Michael, M.L.S. (Indiana University, 1960), Head Librarian, Business/SPEA Library; Adjunct Associate Professor of Public and Environmental Affairs
- Patterson, D. Jeanne, D.B.A. (Indiana University, 1967), Associate Professor of Public and Environmental Affairs (Graduate School)
- Pellicciotti, Joseph, J.D. (Gonzaga University, 1976), Acting Director, Division of Public and Environmental Affairs; Associate Professor of Public and Environmental Affairs (IUN)
- Perry, James L., Ph.D. (Syracuse University, 1974), Professor of Public and Environmental Affairs (Graduate School)
- Peva, James, J.D. (Indiana University, 1961), Associate Professor of Public and Environmental Affairs; Adjunct Associate Professor of Law (IUPUI)
- Pirog-Good, Maureen, Ph.D. (University of Pennsylvania, 1981), Associate Professor of Public and Environmental Affairs (Graduate School)
- Pitts, C. Michael, M.P.A. (Indiana University, 1976), Adjunct Lecturer of Public and Environmental Affairs (IUPUI)
- Poulard, Jean V., Ph.D. (University of Chicago, 1976), Assistant Professor of Political Science (School of Public and Environmental Affairs) (IUN)
- Purnell, George, M.P.A. (University of North Carolina, 1973), Adjunct Lecturer of Public and Environmental Affairs (IUPUI)
- Randolph, James C., Ph.D. (Carleton University, 1972), Professor of Public and Environmental Affairs; Professor of Biology (part-time) (College of Arts and Sciences) (Graduate School)
- Reshkin, Mark, Ph.D. (Indiana University, 1963), Assistant Vice Chancellor for Academic Affairs (part-time); Professor of Public and Environmental Affairs and Professor of Geology (IUN)
- Rhodes, Edward L., Ph.D. (Carnegie-Mellon University, 1978), Director, Public Affairs Graduate Program; Associate Professor of Public and Environmental Affairs (Graduate School)

Riemenschneider, Victor L., Ph.D. (Ohio State University, 1971), Associate Professor of Biology; Associate Professor of Public and Environmental Affairs (part-time) (IUSB)

Risler, Walt P., Ph.D. (University of Chicago, 1962), Associate Professor Emeritus of Public and Environmental Affairs, and Professor Emeritus of Sociology (IUSB)

Ritchie, Ingrid, Ph.D. (University of Minnesota, 1980), Associate Professor of Public and Environmental Affairs (IUPUI) (Graduate School)

Roberts, George C., Ph.D. (Indiana University, 1962), Professor of Political Science (School of Public and Environmental Affairs) (IUN)

Rosentraub, Mark, Ph.D. (University of Southern California, 1975), Associate Dean and Professor of Public and Environmental Affairs (IUPUI) (Graduate School)

Rowe, Lloyd A., Ph.D. (University of Pennsylvania, 1965), Vice Chancellor for Academic Affairs; Professor of Political Science and Professor of Public and Environmental Affairs (IUN)

Rubin, Barry M., Ph.D. (University of Wisconsin, 1977), Associate Dean, University Computing, and Associate Professor of Public and Environmental Affairs (Graduate School)

Rubin, Richard S., Ph.D. (Cornell University, 1973), Director, Midwest Center for Public Sector Labor Relations; Professor of Public and Environmental Affairs (Graduate School)

Rutledge, Phillip, L.L.D. (Indiana University, 1980), Director, Center for Global Studies, International Programs; Special Assistant to the President; Professor of Public and Environmental Affairs and Political Science (IUN); Professor of Public and Environmental Affairs (IUPUI)

Ryan, John W., Ph.D. (Indiana University, 1959), President Emeritus of the University; Professor of Political Science; Professor of Public and Environmental Affairs (Graduate School)

Saywell, Robert, Ph.D. (Colorado State University, 1972), Director, Graduate Programs, Indianapolis; Associate Professor of Public and Environmental Affairs; Adjunct Associate Professor of Nursing (Graduate School) (IUPUI)

Selke, William L., Ph.D. (Michigan State University, 1977), Assistant Professor of Criminal Justice; Assistant Professor of Public and Environmental Affairs (part-time)

Shin, Roy W., Ph.D. (University of Minnesota, 1969), Professor of Public and Environmental Affairs

Shuler, Cloyd, M.A. (Ball State University, 1970), Adjunct Lecturer of Public and Environmental Affairs (IUPUI)

Siffin, William J., Ph.D. (Harvard University, 1957), Professor Emeritus of Public and

Environmental Affairs and Political Science (College of Arts and Sciences) (Graduate School)

Snyder, Thomas P., Ph.D. (Harvard University, 1986), Assistant Professor of Public and Environmental Affairs (Graduate School)

Stachle, William, M.A. (Illinois Institute of Technology, 1960), Adjunct Associate Professor of Public and Environmental Affairs (IUN)

Stegert, Frank X., Ed.D. (Loyola University, 1962), Professor of Public and Environmental Affairs (IUSB)

Vilardo, Frank J., Dr.P.H. (University of North Carolina, 1971), Research Scientist, Transportation Research Center; Associate Professor of Public and Environmental Affairs (Graduate School)

White, Jeffrey R., Ph.D. (Syracuse University, 1984), Associate Professor of Public and Environmental Affairs; Associate Professor of Geology (part-time) (Graduate School)

Whitehead, Donald, Ph.D. (Harvard University, 1958), Professor of Biology; Professor of Public and Environmental Affairs (part-time) (College of Arts and Sciences) (Graduate School)

Whitman, Richard L., Ph.D. (Texas A&M University, 1979), Associate Professor of Biology; Adjunct Associate Professor of Public and Environmental Affairs (IUN)

Willard, Daniel E., Ph.D. (University of California at Davis, 1966), Director, Environmental Programs; Professor of Public and Environmental Affairs; Professor of Biology (part-time) (Graduate School)

Willbern, York Y., Ph.D. (University of Texas, 1943), Professor Emeritus of Public and Environmental Affairs; University Professor Emeritus of Political Science

Wise, Charles R., Ph.D. (Indiana University, 1972), Associate Professor of Public and Environmental Affairs (Graduate School)

Wise, Lois, Ph.D. (Indiana University, 1982), Assistant Professor of Public and Environmental Affairs

Woods, John, Ph.D. (Miami University, 1977), Adjunct Assistant Professor of Public and Environmental Affairs (IUPUI)

Wyckoff, Paul G., Ph.D. (University of Michigan, 1984), Assistant Professor of Public and Environmental Affairs (Graduate School)

Ziegert, Andrea L., Ph.D. (University of North Carolina, 1985), Assistant Professor of Public and Environmental Affairs (IUPUI)

Zollinger, Terrell W., Dr.P.H. (Loma Linda University, 1979), Director, Undergraduate Programs, and Assistant Professor of Public and Environmental Affairs (IUPUI)

Zorn, Charles Kurt, Ph.D. (Syracuse University, 1981), Director, State Relations; Associate Professor of Public and Environmental Affairs (Graduate School)

Indiana University

When you become a student at Indiana University, you join an academic community internationally known for the excellence and diversity of its programs. With 842 degree programs, the University attracts students from all 50 states and around the world. The full-time faculty numbers more than 3,500 and includes members of many academic societies such as the American Academy of Arts and Sciences, the American Philosophical Society, and the National Academy of Sciences.

Indiana University was founded at Bloomington in 1820 and is one of the oldest and largest institutions of higher education in the Midwest. It serves more than 92,000 students on eight campuses. The residential campus at Bloomington and the urban center at Indianapolis form the core of the University. Campuses in Gary, Fort Wayne, Kokomo, New Albany, Richmond, and South Bend join Bloomington and Indianapolis in bringing an education of high quality within reach of all of Indiana's citizens.

General Policies

Nondiscrimination Policy Indiana University is committed to equal opportunity for all persons and provides its services without regard to gender, age, race, religion, ethnic origin, sexual orientation, veteran status, or handicap. The University director of affirmative action is responsible for carrying out the affirmative action program for units in central administration. In addition, there is an affirmative action officer on each campus who develops and administers the program there.

Confidentiality of Student Records In accordance with federal statutes and regulations, student records are confidential and available for disclosure to persons other than the student only under stated conditions.

Student Rights and Responsibilities A statement of students' rights and responsibilities is published in a handbook, *Code of Student Ethics*, which contains a description of due process hearings in the event of disciplinary action.

Degree Requirements Students are responsible for understanding all requirements for graduation and for completing them by the time they expect to graduate. Information about a specific school

or division can be found in the front section of the bulletin for that school.

Requests for deviation from department, program, or school requirements may be granted only by written approval from the respective chairperson, director, or dean (or their respective administrative representative). Disposition at each level is final.

Undergraduate Admissions Policy

Indiana University has adopted the following admissions policy to insure that undergraduate students are properly prepared for college work. These standards seek to insure either adequate academic preparation in high school or evidence of unusual motivation on the part of each student admitted to the University. Effective First Semester, 1991-92, applicants for admission to Indiana University will be expected to meet the following criteria.

Freshman Students¹

1. Graduation from a commissioned Indiana high school or comparable out-of-state institution, successfully completing a minimum of 28 semesters of college preparatory courses including the following:
 - (a) Eight semesters of English. (One semester each of speech and journalism may be included.)
 - (b) Four semesters of social science (economics, government, history, psychology, or sociology).
 - (c) Four semesters of algebra (two semesters of which must be advanced algebra) and two semesters of geometry.
 - (d) Two semesters of laboratory science (biology, chemistry, or physics).
 - (e) Eight semesters in some combination of foreign language; additional mathematics, laboratory science, or social science; computer science; and other courses of a college preparatory nature.
 - (f) Four semesters of foreign language are strongly recommended.
 - (g) Courses to develop writing composition skills are strongly recommended.
2. A rank in the upper half of the high school graduating class for Indiana

¹ Some academic programs require specific qualifications in addition to those enumerated in this policy.

residents or a rank in the upper third of the high school graduating class for out-of-state residents.

3. A score above the median established by Indiana students on a nationally standardized admissions test. Students who have been out of high school for three or more years do not have to submit test scores unless required for admission to specific programs.
4. Each campus may accept students who are deficient in (1), (2), or (3) of the above specifications upon receipt of such evidence as the combination of strength of college preparatory program, rank in class, grades and grade trends in college preparatory courses, and standardized test scores. For persons who do not meet the above criteria and who have been out of high school three or more years, admission can be based on other factors such as a General Educational Development (GED) diploma, maturity, work experience, military service, and other factors as determined by the campus.
5. Each campus, at its discretion, may admit a student on a probationary basis and/or through faculty sponsorship.

Transfer Students¹

1. Submission of official transcripts from all previous institutions attended.
2. The transcripts must reflect a cumulative grade point average of at least a 2.0 (on a 4.0 scale) for Indiana residents and at least a 2.5 (on a 4.0 scale) for out-of-state residents.
3. If the student has fewer than 26 transferable credit hours, the high school record should reflect compliance with freshman admission requirements as specified above.
4. The credentials of students seeking transfer to Indiana University will be evaluated on an individual basis.

When students do not qualify upon first application, they will be counseled about ways of removing deficiencies so that they may qualify for admission at a later date. If any provision of this policy is held invalid, the invalidity does not affect other provisions of this policy which can be given effect without the invalid provision, and to this end the provisions of this policy are severable.

¹ Some academic programs require specific qualifications in addition to those enumerated in this policy.

Transfer to Other Indiana University Campuses

The policy stated below concerning transfer credit pertains to undergraduate students only.

Indiana University credits transferred from one campus of Indiana University to another will be evaluated and accepted in terms at least as favorable as credits transferred from other accredited institutions in the United States. No review of the credits will be undertaken except in good faith terms of the same criteria used in evaluating external credits. In fact, students transferring within the Indiana University system are treated much more favorably because of the similarity of course work on the eight campuses.

Students who want to transfer to another campus should follow these procedures:

1. Inform your academic adviser of your decision as soon as possible. Degree requirements may vary from one campus to another but if your adviser knows of your plan, your academic program can be designed to meet the requirements of the campus you will eventually attend.
2. Contact the department chairperson (or the designated adviser) at the campus you plan to attend. Discuss your plan and ask about any special procedures. For example, transfers in fine arts must submit portfolios of their work. Music transfer students must be auditioned.
3. As the date of transfer approaches, check with your campus registrar to get information on registration dates and procedures on the other campus. If there is a preregistration or pre-enrollment procedure at the other campus, you should plan to take advantage of it. Contact the registrar of the other campus to determine whether you can fulfill any of these responsibilities by phone. Your registrar has a direct telephone line to all other registrars.
4. When you arrive on the new campus, contact your assigned academic adviser or department chairperson as soon as possible. Discuss your academic progress to date and the additional course work required for your program.

Rules Determining Resident and Nonresident Student Status for Indiana University Fee Purposes

These rules establish the policy under which students shall be classified as residents or nonresidents upon all campuses of Indiana University for University fee purposes. Nonresident students shall pay a nonresident fee in addition to fees paid by a resident student.

These rules shall take effect February 1, 1974; provided, that no person properly classified as a resident student before February 1, 1974, shall be adversely affected by these rules, if he or she attended the University before that date and while he or she remains continuously enrolled in the University.

1. "Residence" as the term, or any of its variations (e.g., "resided"), as used in the context of these rules, means the place where an individual has his or her permanent home, at which he or she remains when not called elsewhere for labor, studies, or other special or temporary purposes, and to which he or she returns in seasons of repose. It is the place a person has voluntarily fixed as a permanent habitation for himself or herself with an intent to remain in such place for an indefinite period. A person at any one time has but one residence, and a residence cannot be lost until another is gained.
 - (a) A person entering the state from another state or country does not at that time acquire residence for the purpose of these rules, but except as provided in rule 2(c), such person must be a resident for 12 months in order to qualify as a resident student for fee purposes.
 - (b) Physical presence in Indiana for the predominant purpose of attending a college, university, or other institution of higher education, shall not be counted in determining the 12-month period of residence; nor shall absence from Indiana for such purpose deprive a person of resident student status.
2. A person shall be classified as a "resident student" if he or she has continuously resided in Indiana for at least 12 consecutive months immediately preceding the first scheduled day of

classes of the semester or other session in which the individual registers in the University, subject to the exception in (c) below.

- (a) The residence of an unemancipated person under 21 years of age follows that of the parents or of a legal guardian who has actual custody of such person or administers the property of such person. In the case of divorce or separation, if either parent meets the residence requirements, such person will be considered a resident.
 - (b) If such person comes from another state or country for the predominant purpose of attending the University, he or she shall not be admitted to resident student status upon the basis of the residence of a guardian in fact, except upon appeal to the Standing Committee on Residence in each case.
 - (c) Such person may be classified as a resident student without meeting the 12-month residence requirement within Indiana if his or her presence in Indiana results from the establishment by his or her parents of their residence within the state and if he or she proves that the move was predominantly for reasons other than to enable such person to become entitled to the status of "resident student."
 - (d) When it shall appear that the parents of a person properly classified as a "resident student" under subparagraph (c) above have removed their residence from Indiana, such person shall then be reclassified to the status of nonresident; provided, that no such reclassification shall be effective until the beginning of a semester next following such removal.
 - (e) A person once properly classified as a resident student shall be deemed to remain a resident student so long as remaining continuously enrolled in the University until such person's degree shall have been earned, subject to the provisions of subparagraph (d) above.
3. The foreign citizenship of a person shall not be a factor in determining resident student status if such person has legal capacity to remain permanently in the United States.
 4. A person classified as a nonresident student may show that he or she is exempt from paying the nonresident fee

by clear and convincing evidence that he or she has been a resident (see rule 1 above) of Indiana for the 12 months prior to the first scheduled day of classes of the semester in which his or her fee status is to be changed. Such a student will be allowed to present his or her evidence only after the expiration of 12 months from the residence qualifying date, i.e., the date upon which the student commenced the 12-month period for residence. The following factors will be considered relevant in evaluating a requested change in a student's nonresident status and in evaluating whether his or her physical presence in Indiana is for the predominant purpose of attending a college, university, or other institution of higher education. The existence of one or more of these factors will not require a finding of resident student status, nor shall the nonexistence of one or more require a finding of nonresident student status. All factors will be considered in combination, and ordinarily resident student status will not result from the doing of acts which are required or routinely done by sojourners in the state or which are merely auxiliary to the fulfillment of educational purposes.

- (a) The residence of a student's parents or guardians.
- (b) The situs of the source of the student's income.
- (c) To whom a student pays his or her taxes, including property taxes.
- (d) The state in which a student's automobile is registered.
- (e) The state issuing the student's driver's license.
- (f) Where the student is registered to vote.
- (g) The marriage of the student to a resident of Indiana.
- (h) Ownership of property in Indiana and outside of Indiana.
- (i) The residence claimed by the student on loan applications, federal income tax returns, and other documents.
- (j) The place of the student's summer employment, attendance at summer school, or vacation.
- (k) The student's future plans including committed place of future employment or future studies.
- (l) Admission to a licensed profession in Indiana.
- (m) Membership in civic, community, and other organizations in Indiana or elsewhere.

- (n) All present and intended future connections or contacts outside of Indiana.
 - (o) The facts and documents pertaining to the person's past and existing status as a student.
 - (p) Parents' tax returns and other information, particularly when emancipation is claimed.
5. The fact that a person pays taxes and votes in the state does not in itself establish residence, but will be considered as hereinbefore set forth.
 6. The registrar or the person fulfilling those duties on each campus shall classify each student as resident or nonresident and may require proof of all relevant facts. The burden of proof is upon the student making a claim to a resident student status.
 7. A Standing Committee on Residence shall be appointed by the president of the University and shall include two students from among such as may be nominated by the student body presidents of one or more of the campuses of the University. If fewer than four are nominated, the President may appoint from among students not nominated.
 8. A student who is not satisfied by the determination of the registrar has the right to lodge a written appeal with the Standing Committee on Residence within 30 days of receipt of written notice of the registrar's determination which committee shall review the appeal in a fair manner and shall afford to the student a personal hearing upon written request. A student may be represented by counsel at such hearing. The committee shall report its determination to the student in writing. If no appeal is taken within the time provided herein, the decision of the registrar shall be final and binding.
 9. The Standing Committee on Residence is authorized to classify a student as a resident student, though not meeting the specific requirements herein set forth, if such student's situation presents unusual circumstances and the individual classification is within the general scope of these rules. The decision of the committee shall be final and shall be deemed equivalent to a decision of the Trustees of Indiana University.
 10. A student or prospective student who shall knowingly provide false information or shall refuse to provide or shall conceal information for the purpose of improperly achieving resident student

status shall be subject to the full range of penalties, including expulsion, provided for by the University, as well as to such other punishment which may be provided for by law.

11. A student who does not pay additional monies which may be due because of his or her classification as a nonresident student within 30 days after demand, shall thereupon be indefinitely suspended.
12. A student or prospective student who fails to request resident student status within a particular semester or session and to pursue a timely appeal (see rule 8) to the Standing Committee on Residence shall be deemed to have waived any alleged overpayment of fees for that semester or session.
13. If any provision of these rules or the application thereof to any person or circumstance is held invalid, the invalidity does not affect other provisions or applications of these rules which can be given effect without the invalid provision or application, and to this end the provisions of these rules are severable.

Fees

Enrollment and administrative fees listed here were approved at the May 1990 meeting of the Indiana University Board of Trustees. Fees are subject to change by action of the trustees. For up-to-date information about fees in effect at registration time, see the campus *Schedule of Classes*.

Certain courses and programs requiring studios, laboratories, microscopes, computers, or other special equipment may involve special fees in addition to the enrollment fee. Applied music, student teaching, and some physical education courses also carry additional fees. See the campus *Schedule of Classes* for a list of such courses and programs.

Fees for Indiana University campuses other than Bloomington and Indianapolis are published in the bulletin of the specific campus.

ENROLLMENT FEES	Indiana Resident	Nonresident
Bloomington Campus		
Undergraduate ¹	\$71/credit hour	\$222.15/credit hour
Graduate and Professional ¹		
Business	\$120/credit hour	\$327/credit hour
Law	\$105/credit hour	\$286.25/credit hour
Optometry	\$111.70/credit hour	\$310/credit hour
Other	\$93.30/credit hour	\$266.60/credit hour
Independent Study (Correspondence)	\$62/credit hour	\$62/credit hour
Thesis enrollment (G901) ²	\$100	\$100
Auditing (no credit)	\$25/credit hour	\$25/credit hour
Indianapolis Campus		
Undergraduate ¹	\$69.65/credit hour	\$208/credit hour
Graduate and Professional ¹		
Business	\$120/credit hour	\$327/credit hour
Dentistry	\$5,750/year	\$11,930/year
Law	\$105/credit hour	\$286.25/credit hour
Medicine	\$6,000/year	\$13,560/year
Other	\$93.30/credit hour	\$266.60/credit hour
Thesis enrollment (G901) ²	\$100	\$100
Auditing (no credit)	applicable credit hour rate	

¹ Includes credit courses in the School of Continuing Studies.

² To keep their candidacies active, doctoral students with 90 credit hours or more and Master of Fine Arts students with 60 credit hours or more may enroll in G901 for a flat fee of \$100. Also, they must have completed all graduate degree requirements except for the dissertation or final project/performance. Enrollment in G901 is limited to six times. Students who do not meet these criteria pay the applicable credit hour rate for thesis enrollment.

ADMINISTRATIVE FEES ³	Bloomington Campus	Indianapolis Campus
Application for admission		
United States	\$25	\$25
Foreign	\$35	\$35
Deferred billing charge ⁴	\$15	\$15
Enrollment deposit for entering freshmen	\$100	
Freshman Orientation	\$28	
Health service fee ⁵	\$45/semester	optional
	\$17/Summer Session I	
	\$23/Summer Session II	
Late payment of fees	\$30	not applicable
Late program change ⁶	\$12/course	\$12/course
Late registration ⁷	\$30 to \$60	\$17 to \$69
Student activity fee ⁸	\$7.45 or \$14.90/semester	\$4 or \$8/semester
	\$3.15 or \$6.25/summer session	
Technology fee ⁹	\$6 to \$30	
Transcripts	\$5	\$5

³ Applicable to both in-state and out-of-state students.

⁴ Fee is assessed if deferment option is selected on the schedule confirmation/account statement.

⁵ On the Bloomington campus, students enrolled in more than 3 credit hours pay a mandatory health service fee. Students enrolled in 3 credit hours or less will be charged on a full-cost, fee-for-service basis if they use the services of the IU Health Center. On the Indianapolis campus, the health service fee is optional.

⁶ After drop-and-add week (100 percent refund period), students will be assessed \$12 for each course added, exchanged, or dropped, including a section change, credit hours change, or credit/audit change.

⁷ A late registration processing fee will be assessed any student who does not register during the scheduled registration period. On the Bloomington campus, the fee is \$30 for students who register by the last Friday before classes begin and increases by \$10 on the Monday of each successive week to a maximum of \$60. No registrations will be accepted after the sixth week of the semester without the approval of the dean of students. On the Indianapolis campus, a \$17 late registration fee is in effect upon conclusion of registration through the end of the first week of classes. Late registration after the first week of classes will be assessed as follows: second week, \$34; third week, \$51; fourth week, \$69. No registration will be accepted after the fourth week of classes without the approval of the dean of faculties.

⁸ On the Bloomington campus, students enrolled for more than 3 credit hours during the fall and spring semesters pay a mandatory student activity fee of \$14.90. Students enrolled for 3 or fewer credit hours pay \$7.45. Summer session students enrolled in more than 3 credit hours pay a mandatory fee of \$6.25; students enrolled in 3 or fewer credit hours pay \$3.15. On the Indianapolis campus, part-time students enrolled in 1-8 credit hours pay a mandatory student activity fee of \$4 per semester. Full-time students enrolled in 9 or more credit hours pay \$8 per semester.

⁹ Students on the Bloomington campus must pay a mandatory technology fee of \$6 for 1-3 credit hours, \$12 for 4-6 credit hours, or \$30 for 7 or more credit hours.

Fee Refund Schedule

Time of Withdrawal	Refund	Time of Withdrawal	Refund
9 through 16 weeks		1 week or less	
During 1st week of classes or through drop/add period	100%	During 1st day of class	100%
During 2nd week of classes	75%	During 2nd day of classes	50%
During 3rd week of classes	50%	During 3rd day of classes and thereafter	None
During 4th week of classes	25%		
During 5th week of classes and thereafter	None	The refund policy applies to credit hour fees and all course-related fees.	
5 through 8 weeks		Procedure Students must apply to the Office of the Registrar when they withdraw from classes.	
During 1st week of classes or through drop/add period	100%		
During 2nd week of classes	50%		
During 3rd week of classes and thereafter	None	Student Financial Assistance Students can obtain information about scholarships, grants, fee courtesy, loans, and part-time employment through their campus financial aid office, the Student Employment Office (Bloomington campus only), or through their schools and departments.	
2 through 4 weeks			
During the 1st and 2nd day or through drop/add period	100%		
During 3rd and 4th day of classes	50%		
During 5th day of classes and thereafter	None		

Veterans Benefits Eligible students will receive veterans benefits according to the following scale, which is based on the number of credit hours in which the student is enrolled.

Undergraduate Benefits	Fall & Spring Semesters	Summer I	IUPUI Summer II	Bloomington Summer II
full	12 or more	4	4	6
three-quarters	9-11	3	3	4-5
one-half	6-8	2	2	3
tuition only	fewer than 6	1	1	1-2
Graduate Benefits				
full	8 or more	4	4	4
three-quarters	6-7	3	3	3
one-half	4-5	2	2	2
tuition only	fewer than 4	1	1	1

It is the responsibility of the veteran or veteran dependent to sign up for benefits each semester or summer session of enrollment. It is also the responsibility of the veteran or veteran dependent to notify the office of Disabled Student Services and Veterans Affairs of any schedule change that may increase or decrease the number of benefits allowed.

Veterans with service-connected disabilities may qualify for the Veterans Administration Vocational Rehabilitation Program. They should contact their regional Veterans Administration office for eligibility information.

Indiana University Bulletins

You may want to explore other schools of Indiana University. The following is a complete list of our bulletins. Please note that bulletins for the divisions of the University marked (*) may be obtained from the Office of Admissions, Indiana University, Bloomington, Indiana 47405.

IUPUI bulletins for Purdue programs, for the IUPUI University Division, and for School of Law—Indianapolis may be obtained by writing directly to those units on the Indianapolis campus. To acquire other bulletins, you may write directly to the individual unit or campus for its bulletin.

Indiana University Bloomington

- *College of Arts and Sciences
- *School of Business¹
- *School of Continuing Studies²
- *School of Education³
- *Graduate School
- *School of Health, Physical Education, and Recreation
- *School of Journalism
- *School of Law—Bloomington⁴
- *School of Library and Information Science
- *School of Music
- *School of Optometry
- *School of Public and Environmental Affairs⁵
- University Division

Indiana University—Purdue University at Indianapolis

- School of Business¹
- *School of Continuing Studies²
- *School of Dentistry
- *School of Education³
- School of Engineering and Technology (Purdue University)
- *Graduate School
- *Herron School of Art
- School of Law—Indianapolis⁴
- School of Liberal Arts
- *School of Medicine
- *Division of Allied Health Sciences
- *School of Nursing⁵
- *School of Optometry
- *School of Physical Education
- *School of Public and Environmental Affairs⁵
- School of Science (Purdue University)
- *School of Social Work
- IUPUI University Division

Indiana University East (Richmond)

Indiana University at Kokomo

Indiana University Northwest (Gary)

Indiana University at South Bend

Indiana University Southeast (New Albany)

Indiana University—Purdue University at Fort Wayne (IPFW)

¹ There are two separate bulletins for the Bloomington and Indianapolis undergraduate business programs; please specify which of the two bulletins you need. There is only one bulletin that describes the graduate business programs for both Bloomington and Indianapolis.

² Bulletins on the General Studies Degree Program, Independent Study Program, Division of Labor Studies, and Division of Professional Development are available from this school.

³ Two bulletins are issued: graduate and undergraduate.

⁴ There are two Indiana University schools of law. Be sure to specify whether you want a bulletin of the Bloomington or Indianapolis school.

⁵ There are two bulletins for the School of Nursing. One describes both undergraduate and graduate programs; the second describes the graduate program only.