INDIANA UNIVERSITY
BULLETIN 1988-1990

SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Bloomington Campus
Indiana University Bloomington
*College of Arts and Sciences
*School of Business*
*School of Continuing Studies*
*School of Education*
School of Fine Arts
*Graduate School
*School of Health, Physical Education, and Recreation
  School of Journalism
*Slo University
*Schoo of Law-Bloomington
*Schoo of Library and Information Science
*Schoo of Music
*Schoo of Optometry
*Schoo of Public and Environmental Affairs*
University Division

Indiana University–Purdue University at Indianapolis
*School of Business*
*School of Continuing Studies*
*School of Dentistry
*School of Education*
School of Engineering and Technology (Purdue University)
*Graduate School
*Herron School of Art
School of Journalism
School of Law-Indianapolis
*School of Liberal Arts
*School of Medicine
*Division of Allied Health Sciences
*School of Nursing
*School of Physical Education
*School of Public and Environmental Affairs*
School of Science (Purdue University)
*School of Social Work
IUPUI University Division
  Columbus Center

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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)

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Write directly to the individual regional campus for its bulletin.

* Two bulletins are issued: graduate and undergraduate.
* Brochures on the General Studies Degree Program, Independent Study Program, Division of Labor Studies, Division of Professional Development, and Conference Bureau are available from this school (Owen Hall).
School of Health, Physical Education, and Recreation

Bloomington Campus

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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.
School of Health, Physical Education, and Recreation

The School of Health, Physical Education, and Recreation of Indiana University comprises the Department of Applied Health Science, the Department of Physical Education, the Department of Recreation and Park Administration, and the Division of Recreational Sports. In addition, the school maintains a close working relationship with the Department of Intercollegiate Athletics. Much of the responsibility for the professional preparation of athletic coaches and trainers is shared by the school and the Department of Intercollegiate Athletics, primarily in the form of joint use of faculty, facilities, and equipment.

The program of the school is a reorganized continuation of the work of several agencies that have been joined in this administrative unit of the University. The Normal College of the American Gymnastic Union began to train teachers of physical education in 1866—the first educational institution in America to perform this type of professional service. The Physical Welfare Training Department of the School of Education of Indiana University was an outgrowth of work in preparing teachers in physical and health education, with the first graduates in this field receiving degrees in 1926.

The increasing need for highly trained leaders in health, physical education, recreation, and safety gave impetus to the need for a separate University unit to administer the complex, diverse, and interrelated activities and responsibilities of these fields. The School of Health, Physical Education, and Recreation was consequently established as an autonomous unit in the organizational structure of the University on July 1, 1946.

Within each department of the school, course work is offered leading to the Bachelor of Science degree. The graduate program is designed to provide students with a comprehensive understanding of the conceptual framework of their respective fields, in-depth preparation in an area of interest, and a working knowledge of research techniques. Curricula leading to the master's, director's, and doctoral degrees are offered in the school. The School of Health, Physical Education, and Recreation was the first such organization in the country to offer work leading to the director's degree. This is an intermediate degree between the master's degree and the doctorate. It represents an opportunity for securing advanced professional preparation beyond the master's degree for those interested in supervisory, administrative, or master teaching positions in the fields of Health and Safety, Physical Education, or Recreation and Park Administration.

Indiana University, through the School of Health, Physical Education, and Recreation, was among the first institutions of higher learning in the United States to grant the following professional doctoral degrees: Doctor of Health and Safety (H.S.D.), Doctor of Physical Education (P.E.D.), and Doctor of Recreation (Re.D.), and these degrees have been well accepted and are highly regarded nationally. The Doctor of Philosophy (Ph.D.) degree in the area of human performance is offered in the Indiana University Graduate School but administered by the School of Health, Physical Education, and Recreation.

The needs that existed when the school was founded continue to be critical needs of society. New national and state priorities have made the task of the school more important than ever in its history. Among the many other priorities of our nation, physical fitness is more than a dream of a few; it is a commitment of masses of people. The health and safety needs of this country are of prime importance. A growing and diverse population demands improved leisure experiences and expanded recreational outlets.

Throughout its history, the School of Health, Physical Education, and Recreation has enjoyed a national reputation of noteworthy significance. This reputation is most clearly evidenced by the leadership roles the school's faculty plays in various professional organizations in health, safety, physical education, and recreation and by the placement of many graduates in key positions in institutions of higher learning, in public education, and in other professional career positions. It has been estimated that at least one-fourth of the Departments of Recreation and Parks in universities throughout the nation are headed by Indiana University graduates. A university president and more than 40 deans and directors of various HPER programs earned graduate degrees in the Department of Physical Education.
In extending Indiana University's activities at the state, national, and international levels, each discipline represented in the school makes unique contributions. The diverse faculties working in these fields continue to be involved actively, not only with the extension of knowledge, but with the dissemination of knowledge to students in the classroom as well as to other numerous publics.
Departments and Divisions in the School of Health, Physical Education, and Recreation

Department of Applied Health Science

Chairperson: Professor Seifrin
Professors Womble, Yarber
Associate Professors Crowe, Ellis, Engs, Shier
Assistant Professors Billingham, Henningson, Lindeman, Piercy, Torabi
Lecturers Bailey, Lukas

Professional Staff in Hazard Control Clayton-Randolph, Crafton, Dahlgren, Everett, Hall, Kramer, Paddock, Randolph, Rex, Yarde

The Department of Applied Health Science at Indiana University is one of the oldest and most respected professional preparation programs in the United States. The department offers preparation in human development/family studies, nutrition and dietetics, public health education, school and college health education, safety management, and occupational safety. In a national ranking of professional preparation programs in health education, the department’s doctoral program was ranked fifth in the nation, and its master’s degree program was ranked ninth among approximately 300 universities throughout the nation.

The department offers a comprehensive curriculum of undergraduate and graduate degree programs and courses that emphasize the importance of education in the prevention of personal and family problems related to lifestyle and health behavior. Five areas of specialization are available to the student.

Human Development/Family Studies is concerned with growth and development and with the promotion of positive human relationships throughout the life span.

Nutrition and Dietetics includes instruction and basic research in nutrition science and programs in dietetics, community nutrition, and food science.

School and College Health Education is concerned primarily with programs related to the promotion of the health of children and young adults in schools and colleges, and it traditionally includes courses in substance abuse, emergency care, human sexuality, consumerism, and related areas.

Public Health Education is concerned primarily with programs related to promotion of the health of the general public including programs in public, occupational, and clinical settings.

Safety Management is concerned primarily with the promotion of safety through education, inspection, and the control of hazards.

Degree programs currently available in the department include:
Certificate in Hazard Control
Associate of Science (A.S.) in Hazard Control
Bachelor of Science (B.S.) with options in
Human Development/Family Studies
Nutrition and Dietetics
School and College Health Education
Public Health Education
Occupational Safety
Certificate of Health Studies (Graduate)
Master of Science (M.S.) in Health and Safety, with options in
Health Promotion
Human Development/Family Studies
Nutrition Science
Safety Management
School and College Health Education
Master of Public Health (M.P.H.) in Public Health Education
Director of Health and Safety (H.S.Dir.), with options in
School and College Health Education
Public Health Education
Health and Safety Studies
Doctor of Health and Safety (H.S.D.), with options in
School and College Health Education
Public Health Education
Health and Safety Studies
Doctor of Philosophy (Ph.D.) in Health Behavior
Doctoral minors with options in
Alcohol and Drug Use
Health Promotion
Human Development/Family Studies
Human Sexuality Education
Nutrition Science
Public Health Education
Safety Management
School and College Health Education

In addition to offering a variety of courses and degree programs in the areas of health and safety, the department is continuously involved in a number of innovative research and service projects such as:

**Center for Health and Safety Studies** This center provides support services to the University community, to the profession, and to the state of Indiana through conferences, research projects, and the management of grants and contracts.

**Bibliographic Index of Health Education Periodicals (BIHEP)** An indexing system providing the first comprehensive access to literature in the profession.

**Hazard Control Program** A project primarily designed to educate Department of Defense military and civilian personnel in the area of safety science.

**Operation SmART Decision** A project to promote responsible decision making among adolescents concerning the areas of smoking, alcohol use, and other health-related risk factors.

**Driver and Traffic Safety Education Center** An instructional complex for preparing driver education specialists.

**Tobacco-Free Young America Reporter** (formerly Smoking and Health Reporter) A quarterly publication providing some 40,000 readers with current information concerning smoking.

Sources of potential employment for program graduates are numerous and varied and include public and private schools and colleges; local, state, and federal agencies; international agencies; voluntary health agencies; professional associations; clinics, hospitals, and private health care facilities; business; industry; and the military. Prospects for employment are good, especially if the individual is willing to relocate.

**Development of AIDS Educational Materials** Curricular materials for secondary schools are being developed under federal contracts.

**Drug Abuse Prevention Specialist Training** A federally funded project developed to prepare 100 school-based drug abuse prevention specialists.
Department of Physical Education

Chairperson: Professor Morris

Professors Councilman, Gallahue, Getchell, Knight, Miller, J., Remley, Strong, Surburg, Updyke

Associate Professors Belisle, Billingsley, Brown, Burns, Burrus, Carlson, Case, Dapena, Evans, Greer, Hamm, Johnson, Kamen, Snygg, Wallace

Assistant Professors Bell, Fitch, Haven, Henson, Lucas, Miller, W., Mindheim, Mull, Schrader, Sherwin, Stager, Ulrich, B., Ulrich, D., Yeagley

Instructors Cummins-Schaefer, Carli, Lawrence, Saks

Lecturers Beeker, Cleland, Fox, Humphrey, Locke, Poppy, Smith, W. K., Wigglesworth

Research Associate Jastremski

The Department of Physical Education offers both undergraduate and graduate curricula. An undergraduate Bachelor of Science curriculum for the preparation of teachers, administrators, and coaches leads to a Standard Teaching Certificate, either for senior high, junior high, middle school or for K-12. Nonteaching options in dance performance, sports communication (broadcast emphasis or print emphasis), sports marketing and management, and sports science also lead to the Bachelor of Science in Physical Education. In conjunction with the above programs, the department offers emphasis areas in both the teaching of dance and athletic training.

The undergraduate teacher preparation curriculum is designed around a combination of courses in teaching methodology and the human movement sciences. Professional and technical instruction are given in teaching and coaching the various sports, activities, and dance that are commonly taught in public schools, with the addition of appropriate theoretical academic background. The nonteaching programs are interdisciplinary in nature, providing course work in related subject matter as well as appropriate physical education courses. The athletic training curriculum leads to certification by the National Athletic Trainer’s Association. Students who emphasize the area of fitness will take course work leading to certification by the American College of Sports Medicine.

The department offers an extensive program in elective physical education activities open to major students and students in other departments and/or schools on the Bloomington campus. Included in the elective courses are those in aquatics, conditioning, dance, individual sports, martial arts, racquet sports, and team sports.

Graduate curricula lead to the degrees Master of Science, Director of Physical Education, Doctor of Physical Education, and Doctor of Philosophy in human performance. A variety of emphasis areas are available for graduate degree candidates, including adapted physical education, administration, athletic training, dance, human performance, social science of sport, curriculum instruction, and sport management. The Ph.D. program in human performance emphasizes biomechanics, exercise physiology, and motor learning/control. The department operates human performance research laboratories in these areas and laboratory experiences in motor development.

Department of Recreation and Park Administration

Chairperson: Professor Brantley

Professors Austin, Mobley, Peterson, Rillo

Associate Professors Anderson, Lawson, Martin, Meyer, Robb

Assistant Professors Hawkins, Ross, C., Ross, J., Russell

Lecturers Bayless, Behrman, Clay, Jordan, Ragan, Sharpless

The department prepares students for careers in a variety of park, recreation, and leisure services settings, such as: public parks and recreation; youth agencies; recreational sports facilities; hospitals, extended care facilities and rehabilitation centers; private and commercial recreation; tourism; camping and outdoor education; and military recreation.

Undergraduate Studies

The undergraduate curriculum, leading to the B.S. in Recreation degree, prepares students for positions as recreation activity programmers, planners, and leaders; managers of facilities;
supervisors; park and recreation resource managers; and specialists in such areas as computer applications, therapeutic recreation, military recreation, and environmental education.

Students may select from four emphases:
Recreation Management
Therapeutic Recreation
Outdoor Recreation
Recreation Leadership and Programming

In addition, students are encouraged to pursue concentrations in such areas as:
Business/Management
Biology
Public Administration
Aquatics
General Science
Tourism
Recreational Sports Management
Armed Forces Recreation

**Graduate Studies**

The graduate curriculum is designed for students who are preparing for careers in administration/management, teaching, and research. In addition, students often elect to pursue recreation specialist careers in such areas as recreation planning, environmental education, computer applications, and both clinical and nonclinical therapeutic recreation. The M.S. (Master of Science) in Recreation offers four major options:

**Park/Recreation Administration** for students interested in public agencies, private/commercial agencies, college unions, or general administration/management.

**Outdoor Recreation** for students interested in outdoor recreation management, camping administration, or outdoor/environmental education.

**Recreational Sports Administration** for students with career objectives in sports administration in colleges/universities, public and private recreation agencies, or the Armed Forces.

**Therapeutic Recreation** for students interested in working with disabled persons in either clinical or nonclinical settings.

Advanced graduate degrees include the Re.Dir. (Director of Recreation), the Re.D. (Doctor of Recreation), and the Ph.D. in leisure behavior. These degree programs are designed for graduate students wishing to pursue careers in management and administration, teaching, research, or administration in higher education.

Major programs within the department include:

**The Bradford Institute on Disabled Americans Outdoors** focuses on the outdoors as an alternative learning environment as well as a treatment and recreational setting for persons with disabilities.

**Bradford Woods** Indiana University's nationally recognized outdoor education and camping center. This 2,300 acre center administered by the department is utilized by over 10,000 persons each year in workshops, conferences, academic programs, continuing education, research, and retreats. It is also home of Camp Riley (national demonstration area for camping for the handicapped) and the national headquarters of the American Camping Association.

**The Executive Development Program** for mid-career park and recreation executives. This program is designed to assist professional leaders in keeping abreast with the changing world and in the continuing development of managerial skills.

**The Great Lakes Park Training Institute** serves park executives and their staff with up to date, hands-on techniques. The institute draws administrators, supervisors, and technicians from municipal, regional, state, and federal agencies in the United States and Canada.

**The Leisure Research Institute** provides a special focus for departmental research efforts and expansion of cooperative research projects. Equipped with the latest in available computer
support, the institute enables both students and faculty to pursue research with competent support services.

**Hilltop Garden and Nature Center** is one of the oldest children’s gardens in the United States. The garden contains 75 children’s trees and vegetable plots, plus an herbaceous perennial garden, fruit trees, herb garden, special display plantings, and test gardens. As a part of the department, Hilltop is a laboratory for IU students in outdoor education, resource management, horticulture, and science education.

In addition, both graduate and undergraduate students are afforded unique nonclassroom experiences through such programs and park and recreational facilities as:

- Camp Placement Day
- Outdoor Education Assembly
- Division of Recreational Sports
- Outdoor Recreation Consortium
- State and National forests, parks, and recreational areas
- YMCA Fitness Center and youth agencies
- Institute for the Study of Developmental Disabilities
- Indiana Memorial Union
- Bloomington Parks and Recreation Department

**Division of Recreational Sports**

**Director:** Mull  
**Associate Directors** Bayless, Ross  
**Coordinators** Arnsman, Hammel, Harty, King, Puterbaugh, Wolfe

The division offers the University community a variety of opportunities in sport and fitness. In this total endeavor, every effort is made to coordinate and apply the most meaningful sport experience possible, making maximum utilization of all University sports facilities.

A very popular informal sports program provides for casual self-directed activity. The IU Fit program offers opportunity for participation in such activities as energetics, exer-fit, extra-fit, fit and firm, and bodysculpting. The intramural sports program allows for men’s, women’s, and mixed tournaments in team, dual, individual, and meet competition. The club sports program provides for student groups to organize because they share a common interest in a particular sport, whether the emphasis within the club is social, instructional, or competitive. Recreational sports for persons with disabilities is a program that encourages participation by persons with physical disabilities in tailor-made events as well as existing sport activities.

A noncredit instruction program is offered in a number of sports, including tennis, rowing, sailing, swimming, trap and skeet, and rifle-pistol. Instruction is designed through clinics and lessons and takes place in such auxiliary facilities as Beechwood Heights at Lake Lemon, the IU Tennis Pavilion, the Trap and Skeet range, and the IMU Rifle-Pistol range.

As part of the overall program, numerous paid and volunteer leadership experiences are available to students who wish to get involved in supervising, officiating, unit management, or committee work. This phase of the program is coordinated within the school, providing a laboratory for majors. Through the appropriate academic unit, an outgrowth of the lab is an undergraduate and graduate option in recreational sports.
Undergraduate Program

Students seeking to qualify for the bachelor's degree should confer with an official adviser of the dean's office concerning a detailed outline of the curriculum in which they are interested.

Special Requirements and Restrictions

Correspondence Study  Work taken in absence for credit may be accomplished through the Division of Independent Study; however, entrance requirements of the school must have been satisfied prior to registration if the work is to be applied toward a degree. Special permission of the dean of the school is required of students in residence on the Bloomington campus to register for correspondence work.

Residence  A minimum of 30 of the last 60 semester hours of university work must be done in residence on the campus at Bloomington, and two of the last four semesters of work must be completed after entering the School of Health, Physical Education, and Recreation. The dean must approve any plan for off-campus work.

Hours and Grade Point Average Requirements  A minimum of 124 semester hours of credit are required for graduation. Quality points are assigned for purposes of determining the cumulative grade point average as follows: A+ or A = 4 credit points; A = 3.7; B+ = 3.3; B = 3; B− = 2.7; C+ = 2.3; C = 2; C− = 1.7; D+ = 1.3; D = 1.0; D− = 0.7; and F = 0. No points are assigned for I, S, P, or W. A minimum cumulative grade point average of C (2.0) is required for the baccalaureate degree. In addition, a minimum grade point average of 2.0 is required of all courses completed in the major area and in the minor area.

Note: Although course work may be transferred to Indiana University from another institution, only the grades earned in courses taken at Indiana University will be used to compute a student's grade point average.

Restrictions  No course below the 100 level, no COAS-J courses, and no Educ.-F courses may be used to satisfy the general education requirements. Credit for Math M014 may not be applied toward a degree. A maximum of 3 credit hours in Educ. M135, Self Instruction in Art, may be counted toward a degree.

Degree Application  A candidate for graduation must file a formal application for the degree with the school six months prior to the expected date of graduation. The school will not be responsible for the graduation of seniors who fail to meet this requirement.

Course Load  A student is expected to carry from 12 to 16 credit hours of academic work a semester. Permission to carry fewer than 12 credits may be obtained only in special cases and from the dean of the School of Health, Physical Education, and Recreation. A student who has made an average of at least 3 credit points for each hour taken in the semester immediately preceding may receive permission from the dean to carry more than 18 credit hours. The maximum number of credit hours to be carried by a student is 19.

Pass/Fail Option  A student may enroll in one course per semester on the pass/fail option, providing the course is not in the student's major or minor field. The election of this option must be exercised by the student within the first three weeks of the semester. A grade of P is not counted in computing grade point averages; a grade of F is included. A grade of P cannot be changed subsequently to a grade of A, B, C, or D.

Withdrawals from Courses  Withdrawals during the first three weeks of a semester or first two weeks of a summer session are automatically marked W. Withdrawals that would reduce a student's enrollment below 12 credit hours or interrupt his or her progress toward satisfaction of specific area requirements will not be authorized.

Petitions for withdrawal after the periods specified above will not be authorized by the dean of a student's school except for urgent reasons related to extended illness or equivalent distress. The desire to avoid a low grade is not an acceptable reason for withdrawal from a course.
If the student withdraws with the dean's consent, the mark in the courses shall be W if the student is passing at the time of withdrawal and WF if the student is not passing. The grade will be recorded on the date of withdrawal. Failure to complete a course without authorized withdrawal will result in the grade of F.

Incompletes A grade of I is given only when the work of the course is substantially completed and when the student's work is of passing quality. When an Incomplete is assigned, a record must be maintained in the office of the department in which the grade was given. The record will include a statement of the reason for recording the Incomplete and adequate guidance for its removal, with a suggested final grade in the event of the departure or extended absence of the instructor from the campus. To receive notification of a removal of Incomplete, you will need to contact the instructor.

A student must remove the Incomplete within one calendar year from the date of its recording, except that the dean may authorize adjustment of this period in exceptional circumstances. If the student fails to remove the Incomplete within the time allowed, the dean will authorize the Office of the Registrar to change the grade to F. Both the student and the instructor will be notified of this change in grade.

When the grade of Incomplete is given because the student missed the final examination, the student will be allowed to remove the Incomplete by taking the examination only with the approval of the Committee on Absence and the instructor.

Students may not register in a course in which they have a grade of Incomplete. These regulations do not apply to research and reading courses in which completion of the work of the course is not necessarily required at the end of the semester. Once a student has graduated, nothing in these regulations shall prohibit the Incomplete from remaining on the record.

Addition of Courses No course may be added by undergraduate students after the first two weeks of a regular session or one week in a summer session unless the instructor of the course petitions that an exception be made and the request is approved by the dean of the school in which the course is offered and the dean of the school in which the student is enrolled.

Absences Officially confirmed illness is usually the only acceptable excuse for absence from class.

A student who misses a final examination and who has a passing grade up to that time is given temporarily a grade of Incomplete if the instructor has reason to believe the absence was beyond the student's control. The Office of the Dean of Students reviews excuses for absences from final examinations and notifies instructors of its decisions.

Probation Students are placed on probation for the semester succeeding the one in which they fail to earn a C average. Students remain on probation as long as they earn less than a C average in a given semester or have less than a cumulative C average.

Dismissal At the discretion of the Scholarship and Probation Committee, students may be dismissed from the school if they (1) make less than a D average for a semester, (2) are more than 9 credit points below a cumulative C average, or (3) are on probation for two consecutive semesters. In special cases a student who has been dismissed may petition the committee for readmission.

Admission—Athletic Training Emphasis The number of admissions to the professional Athletic Training emphasis is necessarily limited to the number of practicum spaces available. A student desiring entrance into the program is eligible for consideration under the following conditions:

1. Completion of at least 26 semester hours of credit.

Students who apply for admission into this program are interviewed. Acceptance is based upon a student's total academic record, background, and experiential factors as long as openings in the program exist.

Students satisfying the Athletic Training emphasis conditions stated above are not guaranteed positions in the program.
Admission—Sports Marketing and Management Emphasis Admission into the Sports Marketing and Management emphasis is currently limited to 30 students per year. A student desiring entrance into the program is eligible for consideration under the following conditions:

1. A minimum grade of 2.0 (C) with a minimum cumulative grade point average of 2.3 (C+) in the following courses:
   - Econ. E103 Introduction to Microeconomics (3 cr.)
   - Econ. E104 Introduction to Macroeconomics (3 cr.)
   - Bus. A201 Introduction to Accounting I (3 cr.)
   - Bus. A202 Introduction to Accounting II (3 cr.)
   - HPER P211 Introduction to Sport Management (3 cr.)

2. Students with a GPA of 3.0 or above in these courses are guaranteed admission to the program.

3. Students whose GPA for the prerequisite courses falls below 3.0 will be evaluated on factors such as work-related experiences, the trend of grades, and success in course work in related areas.

4. The submission of a completed application form, which is available from the Office of the Dean (HPER 111), prior to May 15 for fall semester, August 15 for spring semester, or February 15 for summer sessions.

Admission—Department of Applied Health Science The department welcomes inquiries from high school students, University Division students, and upper-division students concerning admission to its programs. General inquiries will be answered by any faculty member in the department. Specific information and application materials may be obtained through the department's undergraduate program coordinator.

Admission—Department of Recreation and Park Administration The Department of Recreation and Park Administration, in cooperation with the University Division, seeks early identification of students planning to major in recreation. Students enrolled in R160, Recreation and Leisure, will be given the appropriate application materials. Other students seeking admission to the department must fill out the necessary application forms, available in the departmental office, and have a personal interview with a faculty member in the department.

Admission to the Teacher Education Program Students wishing to obtain a teaching certificate must be admitted to the Teacher Education Program. The standards for admission to the Teacher Education Program, listed below, apply to both education and noneducation majors. These standards must be met before the student may enroll in advanced professional education courses.

1. An overall GPA of 2.3 (C+) or higher; a 2.3 GPA in the first 12 credit hours of the major.
2. A GPA of 2.0 (C) in Speech S121 and English W131 or equivalent courses.
3. A grade of C or better in each of the professional education courses P253/P254, M201, M300.
4. A passing score on an admission test. The test will be administered three times per year: fall and spring semesters and first summer session. It is recommended that a student take this test spring semester of the freshman year.

Certification for Teachers Graduation certification requirements for those seeking an Indiana Teaching Certificate are a 2.3 GPA in professional education, a 2.3 GPA in the major, and a passing score on the Indiana version of the National Teacher Exam and special test in major area.

General Education Required for the Standard License in Senior High/Junior High/Middle School, and All-Grade Education A minimum of 45 credit hours is required, always including 9 credit hours in specified courses in oral and written expression. The same general education requirements for the standard license in Senior High/Junior High/Middle School Education also apply to the standard license in All-Grade Education, except that the minimum number of credit hours required for the All-Grade license is 40.

Course work must be included from the three areas indicated: Humanities, 18-24 (18-22 for All-Grade); Life and Physical Sciences, 9-15 (9-12 for All-Grade); and Social and Behavioral Sciences, 9-15 (9-12 for All-Grade).

Note: In order to attain the minimum 45 credit hours in general education, the student will have to take more than the minimum number of credit hours in at least two of the three stated categories. The number of hours in each category is also limited by a maximum number.
Humanities ................................................................. 18-24 cr.

Oral and Written Expression ........................................... 9 cr.
Oral ................................................................. 2 cr.
Speech S121
Written ................................................................. 2 cr.
Eng. W143 (1 cr.)¹
Eng. W198 (2 cr.)
Eng. W131 (3 cr.)
Eng. L141 (1)²
Eng. L142 (1)²

Electives—to make at least 9 cr.
Any courses from the above or:
Eng. W103 (3 cr.)
Eng. W203 (3 cr.)
Eng. W231 (3 cr.)
Eng. W301 (3 cr.)
Eng. W350 (3 cr.)
Jour. J200 (3 cr.)
Jour. C327 (3 cr.)
Spch. S122 (2 cr.)
Spch. S324 (3 cr.)

Remaining Humanities:
Distribution to be selected from at least two departments listed below. Either speech or
English may be used as one of the departments, but some work must be taken outside of
either one of these two departments to fulfill the distribution requirement. See the School of
Education Bulletin for specific approved course numbers.
Afro-American Studies
Classical Studies
Comparative Literature
East Asian Languages and Literature
English
Fine Arts
Folklore
French and Italian
Germanic Languages
HPER (R160 only)
Journalism
Linguistics
Music
Near Eastern Languages and Literature
Philosophy
Religious Studies
Slavic Language and Literature
Spanish and Portuguese
Speech Communication
Telecommunications
Theatre and Drama
Uralic and Altaic Studies

Life and Physical Sciences .................................................. 9-15 cr.
(All-Grade 9-12 cr.)

Life Sciences ................................................................. 3 cr.
Anat. & Phys. A215 (5 cr.)
Anat. & Phys. P215 (5 cr.)
Biol. L100 (5 cr.)
Biol. L104 (3 cr.)
Biol. L270 (3 cr.)
Biol. L302 (3 cr.)
Biol. L350 (3 cr.)
Biol. L360 (3 cr.)
Biol. L369 (3 cr.)
Biol. L370 (3 cr.)

Physical Sciences and Mathematics ................................... 3 cr.
Astro. A100 (3 cr.), A105 (3 cr.), A110 (3 cr.)
Chem. C100 (3 cr.), C101/121 (5 cr.), C102/122 (5 cr.), C105/125 (4 cr.), S105 (3 cr.)
C. Sci. C201 (3 cr.), C203 (3 cr.), C301 (1 cr.), C303 (1 cr.)
Geol. G103 (3 cr.), G104 (3 cr.)
Math. M110 (3 cr.), M118 (3 cr.), M119 (3 cr.), M120 (3 cr.), M125 (3 cr.), M126 (2 cr.), M215
(5 cr.), M216 (5 cr.)
Geog. G107 (3 cr.), G208 (3 cr.), G304 (3 cr.), G315 (3 cr.), G405 (3 cr.), G407 (3 cr.), G477
(3 cr.)
Phys. P101 (4 cr.), P110 (2 cr.), P120 (3 cr.), E250 (3 cr.)

Electives—Sufficient electives to complete the minimum 9 credit hours in life and physical
sciences. The following are the only HPER courses that will satisfy the science requirement:
HPER H363 (3 cr.), HPER F397 (3 cr.), HPER P409 (3 cr.).

¹ Eng. W143 is composition credit attached to specified literature courses. It may be repeated once for
credit.
² L141 and L142 are 4-credit hour courses. Three credits of each course will count as literature and 1 credit
will count as composition.
Social and Behavioral Sciences .............................. 9-15 cr.
(All-Grade 9-12 cr.)
Distribution of 9 credit hours to be selected from at least three of the following departments:
Anth. A105 (3 cr.), E105 (3 cr.), A303 (3 cr.), A304 (3 cr.), B200 (3 cr.), E200 (3 cr.)
Econ. E103 (3 cr.), E104 (3 cr.), E300 (5 cr.)
Non-Pys. Geog. G110 (3 cr.), G213 (3 cr.), G306 (3 cr.), G313 (3 cr.), G314 (3 cr.), G320 (3 cr.)
Hist. H103 (3 cr.), H104 (3 cr.), H105 (3 cr.), H106 (3 cr.), H111 (3 cr.), H112 (3 cr.)
Pol. Sci. Y103 (3 cr.), Y105 (3 cr.), Y107 (3 cr.), Y109 (3 cr.), Y200 (3 cr.), Y204 (3 cr.), Y205
(3 cr.), Y302 (3 cr.), Y303 (3 cr.), Y307 (3 cr.), Y308 (3 cr.)
Psy. P101 (3 cr.), P102 (3 cr.), P106 (4 cr.)
Soc. S100 (3 cr.), S101 (3 cr.), S210 (3 cr.), S230 (3 cr.)

Certificate in Hazard Control
A one-year program of study for the entry level practitioner interested in becoming a safety
 technician or who will have safety as a collateral responsibility.

First Semester, Total 16-17 cr.
HPER S101 Introduction to Safety Science (3 cr.)
HPER S151 Safety Codes and Standards (3 cr.)
HPER H201 Introduction to Industrial Hygiene (3 cr.)
Eng. W131 Elementary Composition (3 cr.)
Life/Physical Science Electives (4-5 cr.)

Second Semester, Total 15-16 cr.
HPER S251 Accident Investigation, Analysis and Reporting (3 cr.)
HPER S202 Fundamentals of Fire Protection (3 cr.)
HPER S253 Hazard Control Program Management (3 cr.)
Psy. P101 Introductory Psychology (3 cr.)
Spch. S121 Public Speaking (2 cr.)
Electives (1-2 cr.)

Associate of Science Degree in Hazard Control
A two-year program to prepare entry level specialists. Building upon the one-year certificate
program, the associate degree provides a professional background for students interested in
pursuing a career in safety. It may serve as a foundation for students seeking a baccalaureate
degree in safety.

First Semester, Total 15 cr.
HPER S101 Introduction to Safety Science (3 cr.)
HPER S151 Safety Codes and Standards (3 cr.)
HPER H201 Introduction to Industrial Hygiene (3 cr.)
Eng. W131 Elementary Composition (3 cr.)
Math. M118 Finite Math (3 cr.)

Second Semester, Total 17 cr.
HPER S251 Accident Investigation, Analysis and Reporting (3 cr.)
HPER S202 Fundamentals of Fire Protection (3 cr.)
HPER S253 Hazard Control Program Management (3 cr.)
Psy. P101 Introductory Psychology (3 cr.)
Spch. S121 Public Speaking (2 cr.)
Electives (3 cr.)

First Semester, Total 17 cr.
HPER H160 First Aid and Emergency Care (3 cr.)
HPER S252 Human Factors Analysis (3 cr.)
Anat. A215 Basic Human Anatomy (5 cr.)
OR
Phsl. P215 Basic Mammalian Physiology (5 cr.)
Soc. S100 Sociological Analysis of Society (3 cr.)
Chem. C100 Chemistry (3 cr.)

Second Semester, Total 16 cr.
Phys. P101 Physics in the Modern World (4 cr.)
Pol. Sci. Y103 Introduction to American Politics (3 cr.)
HPER H363 Personal Health (3 cr.)
Electives (1-6 cr.)
Health and Safety Major

Emphasis: Teacher Preparation

Four-year program leading to a Provisional Teaching Certificate and the degree Bachelor of Science in Health and Safety (minimum of 124 credit hours).

Professional Health and Safety Courses (40 credit hours required)

Anat. A215 Basic Human Anatomy (5 cr.)
Phsl. P215 Basic Mammalian Physiology (5 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)
HPER H318 Drug Use in American Society (3 cr.)
HPER H363 Personal Health (3 cr.)
HPER H464 Organization of Health Education (3 cr.)
HPER H494 Research and Evaluation Methods in Health and Safety (3 cr.)
HPER S350 Content and Material in Safety Education (2 cr.)
HPER N231 Human Nutrition (3 cr.)
OR
HPER N220 Basic Nutrition (3 cr.)

Select 10 credit hours from the following:

HPER H460 Practicum in First Aid Instruction (3 cr.)
HPER H440 Research in Health and Safety (1 cr.)
HPER C366 Health Problems in the Community (3 cr.)
HPER C403 Techniques of Public Health Education (3 cr.)
HPER C311 Human Diseases and Epidemiology (3 cr.)
HPER H220 Death and Dying (3 cr.)
HPER H305 Women's Health (3 cr.)
HPER H315 Consumer Health (3 cr.)
HPER H320 The Nature of Cancer (3 cr.)
HPER S456 Traffic Safety Education for Teachers (4 cr.)
Educ. R543 Preparation of Inexpensive Materials (3 cr.)
Biol. L369 Heredity, Evolution, and Society (3 cr.)
HPER F150 Introduction to Life Span Human Development (3 cr.)
HPER F255 Human Sexuality (3 cr.)
HPER F258 Marriage and Family Interaction (3 cr.)
HPER F458 Family and Consumer Law (3 cr.)

Life and Physical Science (9 credit hours required)

Life Sciences (3-6 cr. required)

Physical Science (3-6 credit hours required)

Humanities (18 credit hours required)

Oral and Written Expression (9 cr. required)

Required:

Spcch. S121 Public Speaking (2 cr.)
Eng. W131 Elementary Composition (3 cr.)

Recommended electives to complete the 9 credit hours:

Eng. W103 Introduction to Creative Writing (3 cr.)
Eng. W231 Professional Writing Skills (3 cr.)
Spcch. S122 Interpersonal Communication (2 cr.)
Eng. W143 Expository Writing (1 cr.)

Remaining Humanities electives to complete requirement. See adviser for approval.

Social and Behavioral Sciences (9 credit hours required)

Distribution of 9 credit hours to be selected from at least three of the following departments: anthropology, economics, non-physical geography, history, political science, psychology, sociology.

Professional Education

See the School of Education Bulletin for required courses in the area of Professional Education.

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1 May be taken more than one time but must be taken in conjunction with any of the following courses:
Suggested course schedule for the first year in Health and Safety Major (Teacher Preparation)
First Semester, Total 16 cr.
Biol. L100 Man and the Biological World (5 cr.)
Eng. W131 Elementary Composition I (3 cr.)
Spc. S121 Public Speaking (2 cr.)
Soc. S100 Sociological Analysis of Society (3 cr.)
Electives (3 cr.)

Second Semester, Total 16 cr.
Chem. C100 The World as Chemistry (3 cr.)
OR
Chem. C101 Elementary Chemistry (3 cr.)
Chem. C121 Elementary Chemistry Laboratory (2 cr.)
Psy. P101 Introductory Psychology I (3 cr.)
HPER H160 First Aid (2 cr.)
Humanities Course (3 cr.)
Electives (3 cr.)

Health and Safety Major

Emphasis: Public Health Education Specialist
Four-year program leading to the degree Bachelor of Science in Health and Safety with emphasis in public health education (minimum 124 credit hours).

Professional Health and Safety Courses (64 credit hours required)
Anat. A215 Basic Human Anatomy (5 cr.)
Phyl. P215 Basic Mammalian Physiology (5 cr.)
HPER H363 Personal Health (3 cr.)
Educ. R543 Preparation of Inexpensive Materials (3 cr.)
OR
Educ. R423 Utilization of Instructional Materials (3 cr.)
Educ. W100 Computer Awareness-Literacy (3 cr.)
HPER C366 Health Problems in the Community (3 cr.)
HPER H464 Organization of Health Education (3 cr.)
HPER S350 Content and Material in Safety Education (2 cr.)
HPER H311 Human Diseases and Epidemiology (3 cr.)
HPER C403 Techniques of Public Health Education (3 cr.)
HPER H494 Research and Evaluation Methods in Health and Safety (3 cr.)
HPER C444 Field Experience in Public Health Education (4-8 cr.)

Elect 20-24 credits from the following:
HPER H160 First Aid and Emergency Care (3 cr.)
HPER F258 Marriage and Family Interaction (3 cr.)
HPER N231 Human Nutrition (3 cr.)
HPER H220 Death and Dying (3 cr.)
HPER H318 Drug Use in American Society (3 cr.)
HPER H220 The Nature of Cancer (3 cr.)
HPER H460 Practicum in First Aid Instruction (3 cr.)
HPER C441 Readings in Public Health Education (1 cr.)
HPER N336 Community and Nutrition (3 cr.)
HPER F255 Human Sexuality (3 cr.)
HPER H305 Women's Health (3 cr.)
HPER H315 Consumer Health (3 cr.)
HPER F150 Introduction to Life Span Human Development (3 cr.)
HPER F248 Human Development I: Infancy and Pre-school (3 cr.)
Life and Physical Science (14 credit hours required)
Biol. L100 Man and Biological World (5 cr.)
Chem. C100 The World as Chemistry (3 cr.)
Biol. M200 Microorganisms in Nature and Disease (3 cr.)
OR
Biol. L270 Man and Microorganisms (3 cr.)
Biol. L350 Environmental Biology (3 cr.)
Social and Behavioral Science (12 credit hours required)
Psy. P101 Introductory Psychology I (3 cr.)
Psy. P102 Introductory Psychology II (3 cr.)
Psy. P316 Psychology of Childhood and Adolescence (3 cr.)
Pol. Sci. Y103 Introduction to American Politics (3 cr.)
Soc. S101 Social Problems and Policies (3 cr.)
Soc. S210 Social Organization (3 cr.)
Soc. S230 Society and the Individual (3 cr.)
Soc. S316 Sociology of the Family (3 cr.)

Humanities (14 credit hours required)
Oral and Written Expression
Required courses (8 cr.):
  Spch. S121 Public Speaking (2 cr.)
  Eng. W131 English Composition (3 cr.)
  Eng. W103 Introduction to Creative Writing (3 cr.)

Elect 6 credits from the following:
  Eng. W231 Professional Writing Skills (3 cr.)
  Spch. S122 Interpersonal Communication (2 cr.)
  Jour. J210 Visual Communication (3 cr.)
  Jour. J200 Writing for Mass Media (3 cr.)
  OR
  Tel. C200 Introduction to Mass Communication (3 cr.)
  Spch. S324 Persuasion (3 cr.)
  Related Electives to complete 124 credit hours minimum

Suggested Course Schedule for the First Year in Health and Safety (Public Health Education Specialist)
First Semester, Total 16-17 cr.
HPER H160 First Aid (2 cr.)
Eng. W131 Elementary Composition I (3 cr.)
Spch. S121 Public Speaking (2 cr.)
Psy. P101 Introductory Psychology I (3 cr.)
Biol. L100 Man and the Biological World (5 cr.)
Electives (1-2 cr.)

Second Semester, Total 16 cr.
Chem. C100 The World as Chemistry (3 cr.)
OR
Chem. C101 Elementary Chemistry (3 cr.)
Pol. Sci. Y103 Introduction to American Politics (3 cr.)
Eng. W103 Introductory Creative Writing (3 cr.)
Spch. S122 Interpersonal Communication (2 cr.)
Psy. P102 Introductory Psychology II (3 cr.)
Electives (3 cr.)

Health and Safety Major
Emphasis: Occupational Safety Specialist
Four-year program leading to the degree Bachelor of Science in Health and Safety with an option as specialist in occupational safety (minimum 124 credit hours).

Professional Health and Safety Courses (56-62 credit hours required)
Anat. A215 Basic Human Anatomy (5 cr.)
Pbssl. P215 Basic Mammalian Physiology (5 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)
HPER H363 Personal Health (3 cr.)
HPER H460 Practicum in First Aid Instruction (3 cr.)
HPER C403 Techniques of Public Health Education (3 cr.)
HPER S351 Leadership Development in the Shooting Sports (2 cr.)
HPER S350 Content and Material in Safety Education (2 cr.)
Bus. T300 Principles of Transportation (3 cr.)
Educ. R423 Utilization of Instructional Materials (3 cr.)
HPER S444 Field Experience in Occupational Safety (2-8 cr.)
HPER S456 Traffic Safety Education for Teachers (4 cr.)
HPER C366 Health Problems in the Community (3 cr.)
Bus. K201 Computer in Business (3 cr.)
OR
Educ. W100 Computer Awareness/Literacy (3 cr.)
Bus. Z302 Man and Behavior in Organization (3 cr.)
SPEA V170 Public and Environmental Affairs (3 cr.)
HPER S253 Hazard Control Program Management (3 cr.)
SPEA H316 Introduction to Environmental Health (3 cr.)
HPER H440 Research in Health and Safety (1 cr.)

Hazard Control Technology (9 credit hours required; select three of the following four courses)
HPER S101 Introduction to Safety Science (3 cr.)
HPER S151 Safety Codes and Standards (3 cr.)
HPER H201 Introduction to Industrial Hygiene (3 cr.)
HPER S202 Fundamentals of Fire Protection (3 cr.)

Social and Behavioral Science (15 credit hours required)
Required (9 cr.):
  - Psy. P101 Introductory Psychology I (3 cr.)
  - Soc. S100 Sociological Analysis of Society (3 cr.)
  - Pol. Sci. Y103 Introduction to American Politics (3 cr.)
Electives (6 cr.):
  - Soc. S309 The Community (3 cr.)
  - Soc. S316 Sociology of the Family (3 cr.)
  - Econ. E103 Introduction to Microeconomics (3 cr.)

Life and Physical Science (15 credit hours required)
Life Science (10 credit hours required)
Biol. L100 Man and the Biological World (5 cr.)
Sufficient electives from biology to complete remaining 5 hours

Physical Science (5 credit hours required)
Chem. C101 Elementary Chemistry I (3 cr.)
Chem. C121 Elementary Chemistry Laboratory (2 cr.) (May be taken either before or at the same time as C101)

Humanities (18-24 credit hours required)
Oral and Written Expression (9 cr. required)
Required:
  - Spch. S121 Public Speaking (2 cr.)
  - Eng. W131 Elementary Composition (3 cr.)
Recommended electives to complete 9 credit hours:
  - Eng. W103 Introduction to Creative Writing (3 cr.)
  - Eng. W231 Professional Writing Skills (3 cr.)
  - Spch. S122 Interpersonal Communication (2 cr.)
  - Eng. W143 Expository Writing (1 cr.)
Remaining Humanities (9-15 credit hours required)
Required:
  - Jour. J200 Writing for Mass Media (3 cr.)
OR
  - Tel C201 Introduction to Mass Communication (3 cr.)

Additional electives to complete 9-15 credit hours requirement. See adviser for approval.

Suggested Course Schedule for the First Year in Health and Safety Major (Occupational Safety Specialist)

First Semester, Total 16 cr.
Eng. W131 Elementary Composition (3 cr.)
Psy. P101 Introductory Psychology (3 cr.)
Biol. L101 Man and the Biological World (5 cr.)

1 May be taken more than one time but must be taken in conjunction with any of the following courses:
Spch. S121 Public Speaking (2 cr.)
HPER S101 Introduction to Safety Science (3 cr.)

Second Semester, Total 17 cr.
Chem. C100 The World as Chemistry (3 cr.)
Soc. S100 Sociological Analysis of Society (3 cr.)
Math. M118 Finite Math (3 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)
HPER S151 Codes and Standards (3 cr.)
Electives (3 cr.)

Health and Safety Major
Emphasis: Human Development/Family Studies
Four-year program leading to the degree Bachelor of Science in Health and Safety with
emphasis in the areas of human development/family studies (minimum 124 credit hours).

Professional Health and Safety Courses (60 credit hours required)
HPER F150 Introduction to Life-Span Development (3 cr.)
Educ. W100 Computer Awareness/Literacy (3 cr.)
HPER N220 Basic Nutrition (3 cr.)
OR
HPER N231 Human Nutrition (3 cr.)
HPER F248 Human Development I: Infancy and Preschool (3 cr.)
HPER F255 Human Sexuality (3 cr.)
HPER F258 Marriage and Family Interaction (3 cr.)
Math. K300 Statistical Techniques (3 cr.)
HPER H318 Drug Use in American Society (3 cr.)
HPER F345 Parent/Child Relationships (3 cr.)
HPER H363 Personal Health (3 cr.)
HPER H494 Research and Evaluation Methods in Health and Safety (3 cr.)
HPER F317 Seminar in Human Development/Family Studies (3 cr.)
HPER F458 Family and Consumer Law (3 cr.)
Electives (21 hours: 15 at the 300 and 400 levels) to be determined by student's area of interest

Life and Physical Science (12 credit hours required)
Biol. L104 Introduction to Biology Lectures (3 cr.)
Chem. C100 The World as Chemistry (3 cr.)
Math. M118 Finite Mathematics (3 cr.)
Electives (3 cr.)

Social and Behavioral Science (24 credit hours required)
Required:
Psy. P101 Introductory Psychology I (3 cr.)
Psy. P102 Introductory Psychology II (3 cr.)
Soc. S100 Sociological Analysis of Society (3 cr.)
Soc. S101 Social Problems and Policies (3 cr.)
Hist. H231 The Family in History (3 cr.)
Geog. G320 Population Geography (3 cr.)
Electives: (6 cr.)

Humanities (13 credit hours required)
Oral and Written Expression (9 cr. required)
Required:
Spch. S121 Public Speaking (2 cr.)
Eng. W131 Elementary Composition (3 cr.)

Four hours to be selected from:
Eng. W103 Introduction to Creative Writing (3 cr.)
Eng. W231 Professional Writing Skills (3 cr.)
Spch. S122 Interpersonal Communication (2 cr.)

1 Honors Psychology P106 (4 cr.) may be substituted for P101 and P102
Eng. W143 Expository Writing (1 cr.)

Remaining Humanities (4 cr. elective)
Free Electives (15 cr.)

Suggested Course Schedule for the First Year in Health and Safety Major (Human Development/Family Studies)

First Semester, Total 15-18 cr.
HPER F150 Life Span Development (3 cr.)
Psy. P101 Introductory Psychology (3 cr.)
Eng. W131 Elementary Composition (3 cr.)
Sphc. S121 Introduction to Public Speaking (2 cr.)
Biol. L104 Introduction to Biology Lectures (3 cr.)
Electives (1-4 cr.)

Second Semester, Total 15-18 cr.
Psy. P102 Introductory Psychology (3 cr.)
Soc. S101 Social Problems (3 cr.)
Chem. C100 The World as Chemistry (5 cr.)
Eng. W103 Introduction to Creative Writing (3 cr.)
Electives (1-4 cr.)

Health and Safety Major

Emphasis: Nutrition Science

Four-year program leading to the degree Bachelor of Science in Health and Safety with emphasis in the area of nutrition science (124 credit hours).

Professional Health and Safety Courses (61 credit hours required)

Required:
- Anat. A215 Basic Human Anatomy (5 cr.)
- Phsl. P215 Basic Mammalian Physiology (5 cr.)
- Biol. L330 Biology of the Cell (3 cr.)
- Bus. K201 Computer in Business (3 cr.)
- Clas. C209 Medical Terms from Greek and Latin (2 cr.)
- HPER H150 Introduction to Life Span Human Development (3 cr.)
- HPER H210 Introductory Foods and Meal Management (3 cr.)
- HPER H231 Human Nutrition (3 cr.)
- HPER H318 Drug Use in American Society (3 cr.)

OR
- Nurs. B216 Pharmacology (3 cr.)
- HPER N320 Experimental Study of Foods (3 cr.)
- HPER N336 Community Nutrition (3 cr.)
- HPER H363 Personal Health (3 cr.)
- HPER C406 Health Problems in the Community (3 cr.)
- HPER C403 Techniques of Public Health Education (3 cr.)
- HPER N430 Advanced Human Nutrition (4 cr.)
- HPER N431 Nutrition in Disease—Diet Therapy (3 cr.)
- HPER N432 Nutritional Assessment and Analysis (3 cr.)
- HPER N440 Research in Nutrition/Dietetics (1 cr.)
- Biol. M310 Microbiology (3 cr.)
- Biol. M315 Microbiology Laboratory (2 cr.)

Recommended: HPER N444 Field Experience in Nutrition/Dietetics (6-8 cr.)

Electives: 12 credit hours

Life and Physical Science (27 hours required)
- Chem. C105 Principles of Chemistry (3 cr.)
- Chem. C125 Experimental Chemistry I (2 cr.)
- Math. M109 Brief Survey Calculus I (3 cr.)
- Psy. K300 Statistical Techniques (3 cr.)

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2 May be taken more than one time but must be taken in conjunction with any of the following courses:
Chem. C106 Quantitative Chemistry (3 cr.)
Chem. C126 Experimental Chemistry II (2 cr.)
Chem. C341 Organic Chemistry I Lecture (3 cr.)
Chem. C342 Organic Chemistry II Lecture (3 cr.)
Chem. C343 Organic Chemistry I Laboratory (2 cr.)
Biol. Z466 Endocrinology (3 cr.)

Social and Behavioral Science (15 credit hours required)
Soc. S100 Sociological Analysis of Society (3 cr.)
Econ. E103 Introduction to Microeconomics (3 cr.)
OR
Econ. E104 Introduction to Macroeconomics (3 cr.)
Psy. P101 Introduction to Psychology (3 cr.)
Psy. P102 Introduction to Psychology II (3 cr.)
Psy. P325 Psychology of Learning (3 cr.)

Humanities (9 credit hours required)
Eng. W131 English Composition (3 cr.)
Eng. W231 Professional Writing Skills (3 cr.)
Spch. S223 Business and Professional Speaking (3 cr.)

Suggested Course Schedule for the First Year in Health and Safety Major (Nutrition Science)
First Semester, Total 14 cr.
Econ. E103 Introduction to Microeconomics (3 cr.)
OR
Econ. E104 Introduction to Macroeconomics (3 cr.)
Chem. C105 Principles of Chemistry (3 cr.)
Chem. C125 Experimental Chemistry I (2 cr.)
HPER N120 Introductory Foods and Meal Management (3 cr.)
Psy. P101 Introductory Psychology I (3 cr.)

Second Semester, Total 17 cr.
HPER F150 Introduction to Life Span Human Development (3 cr.)
Chem. C106 Quantitative Chemistry (3 cr.)
Chem. C126 Experimental Chemistry II (2 cr.)
Eng. W131 English Composition (3 cr.)
Math. M119 Brief Survey of Calculus I (3 cr.)
Psy. P102 Introductory Psychology II (3 cr.)

Health and Safety Major
Emphasis: Dietetics
Four-year program leading to the degree Bachelor of Science in Health and Safety with emphasis in dietetics (minimum 124 credit hours)

Professional Health and Safety Courses (70 credit hours)
Anat. A215 Basic Human Anatomy (5 cr.)
Phsl. P215 Basic Mammalian Physiology (5 cr.)
Biol. L330 Biology of the Cell (3 cr.)
Bus. B201 Computer in Business (3 cr.)
Clas. C209 Medical Terms from Greek and Latin (2 cr.)
HPER F150 Introduction to Life Span Human Development (3 cr.)
HPER N120 Introductory Foods and Meal Management (3 cr.)
HPER N231 Human Nutrition (3 cr.)
HPER H318 Drug Use in American Society (3 cr.)
OR
Pharm. B216 Pharmacology (3 cr.)
HPER N320 Experimental Study of Foods (3 cr.)
HPER N336 Community Nutrition (3 cr.)
HPER H363 Personal Health (3 cr.)
HPER C366 Health Problems in the Community (3 cr.)
HPER C403 Techniques of Public Health Education (3 cr.)
HPER N421 Quantitative Food Purchasing and Production (4 cr.)
HPER N422 Management of Food Service Systems (2 cr.)
HPER N430 Advanced Human Nutrition (4 cr.)  
HPER N431 Nutrition in Disease—Diet Therapy (3 cr.)  
HPER N432 Nutritional Assessment and Analysis (3 cr.)  
Biol. M200 Microorganisms in Nature and Disease (3 cr.)  
Bus. Z302 Managing and Behavior in Organizations (3 cr.)  
SPEA V373 Personnel Management (3 cr.)  
Electives: 8 cr.  
Recommended: HPER N444 Field Experience in Nutrition/Dietetics (3-6 cr.)  
HPER N440 Research in Nutrition/Dietetics (1 cr.)

**Life and Physical Science (22 credit hours)**

Required:
- Chem. C101 Elementary Chemistry I (3 cr.)  
- Chem. C121 Elementary Chemistry Lab I (2 cr.)  
- Math. M119 Brief Survey Calculus I (3 cr.)  
- Psy. K300 Statistical Technique (3 cr.)  
- Chem. C106 Quantitative Chemistry (3 cr.)  
- Chem. C126 Experimental Chemistry II (2 cr.)  
- Chem. C341 Organic Chemistry I Lecture (3 cr.)  
- Biol. Z466 Endocrinology (3 cr.)

**Social and Behavioral Science (15 credit hours)**

Required:
- Soc. S100 Sociological Analysis of Society (3 cr.)  
- Econ. E103 Introduction to Microeconomics (3 cr.)  
- OR  
  - Econ. E104 Introduction to Macroeconomics (3 cr.)  
  - Psy. P101 Introductory Psychology (3 cr.)  
  - P102 Introductory Psychology II (3 cr.)  
  - P325 Psychology of Learning (3 cr.)

**Humanities (9 credit hours)**

Required:
- Eng. W131 English Composition (3 cr.)  
- Eng. W231 Professional Writing Skills (3 cr.)  
- Spch. S223 Business and Professional Speaking (3 cr.)

**Suggested Course Schedule for the First Year in Health and Safety Major (Dietetics)**

**First Semester, Total 14 cr.**
- Econ. E103 Introduction to Microeconomics (3 cr.)  
- OR  
- Econ. E104 Introduction to Macroeconomics (3 cr.)  
- Chem. C101 Elementary Chemistry I (3 cr.)  
- Chem. C121 Elementary Chemistry Laboratory I (2 cr.)  
- HPER N120 Introductory Foods and Meal Management (3 cr.)  
- Psy. P101 Introductory Psychology I (3 cr.)

**Second Semester, Total 17 cr.**
- HPER F150 Introduction to Life Span Human Development (3 cr.)  
- Chem. C106 Quantitative Chemistry (3 cr.)  
- Chem. C126 Experimental Chemistry (2 cr.)  
- Eng. W131 English Composition (3 cr.)  
- Math. M119 Brief Survey of Calculus I (3 cr.)  
- Psy. P102 Introductory Psychology II (3 cr.)

**Health and Safety Minor**

The following courses are required to meet minor teaching certification in health and safety:
- HPER H160 First Aid and Emergency Care (3 cr.)  
- HPER H363 Personal Health (3 cr.)  
- HPER H440 Research in Health and Safety (1 cr.)  
- HPER H464 Organization of Health Education (3 cr.)  
- HPER C366 Health Problems in the Community (3 cr.)  
- HPER C403 Techniques of Public Health Education (3 cr.)
HPER S350 Content and Materials in Safety Education (2 cr.)
Phal. P215 Basic Mammalian Physiology (5 cr.)
HPER N220 Basic Nutrition (3 cr.)

**Driver Education Endorsement**
HPER S350 Content and Materials in Safety Education (2 cr.)
HPER S456 Traffic Safety Education for Teachers (4 cr.)
HPER S458 Driver Education Multiple Instruction Techniques (3 cr.)
Select one 3-credit-hour course in consultation with advisor

**Physical Education Major Degree Programs**

**Teacher Certification Programs**
Students may obtain a Bachelor of Science in Physical Education degree with teaching certification through their choice of two types of teaching licenses—(1) All-Grade or (2) Senior High, Junior High, Middle School Education. (See the School of Education Bulletin for required courses in the area of professional education).

**Non-Teaching Programs**
Students may obtain a Bachelor of Science in Physical Education degree through completion of options in Sports Communication (Broadcast or Print emphasis), Sports Marketing and Management, Dance Performance, or Sports Science. These programs do not lead to teacher certification.

**Description of Teaching Degree Programs**

**All-Grade Teaching License**  The All-Grade program allows a student to obtain a Bachelor of Science in Physical Education degree with license to teach grades K-12. Within this program a student must elect an emphasis area in aquatics, coaching, dance, or elementary physical education.

**Senior High, Junior High, Middle School Teaching License**  This program allows a student to obtain a Bachelor of Science in Physical Education degree with license to teach at the levels indicated. This program does not require an emphasis area, although through appropriate scheduling, students may design one of their choice. This curriculum, however, is pursued along with a teaching minor or appropriate alternative. Placement opportunities are enhanced if a student elects a minor.

**Course Requirements for All-Grade and Secondary License Programs**

**Required Skill/Foundations/Theory Courses**
HPER P220 Foundations of Racquet Sports (2 cr.)
HPER P224 Foundations of Rhythmic Dance Activities (2 cr.)
HPER P240 Foundations and Principles of Physical Education (2 cr.)
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
HPER P290 Movement Experiences for Pre-School and Elementary School Children (2 cr.)
HPER P300 Foundations of Stunts, Tumbling, and Apparatus (2 cr.)
HPER P310 Foundations of Conditioning and Self-Testing Activities (2 cr.)
HPER P320 Foundations of Team/Contemporary Activities I (2 cr.) (Soccer, Volleyball)
   OR
HPER P340 Foundations of Team/Contemporary Activities II (2 cr.) (Basketball, Softball)
HPER P390 Growth and Motor Performance of School Age Youth K-12 (2 cr.)
HPER P397 Kinesiology (3 cr.)
HPER P398 Adapted Physical Education (3 cr.)
HPER P409 Physiology of Exercise (3 cr.)
HPER P452 Motor Learning (3 cr.)
HPER P493 Tests and Measurement in Physical Education (3 cr.)
HPER P497 Organizational and Curricular Structures of Physical Education K-12 (2 cr.)

**Restricted Elective Skill/Coaching Courses**  Elect 5 credit hours with a minimum of one course from each area:

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1 Required for All-Grade license only.
Skill Area
HPER P320 Foundations of Team/Contemporary Activities I (2 cr.)
OR
HPER P340 Foundations of Team/Contemporary Activities II (2 cr.) (Course not chosen in required core above)
HPER P355 Foundations Skill Core (1 cr.)
HPER E477 Water Safety Instructor (1 cr.)
HPER A483 Sports Officiating (1 cr.)

Coaching Area
HPER A361 Coaching of Football (1 1/2 cr.)
HPER A362 Coaching of Basketball (1 1/2 cr.)
HPER A363 Coaching of Baseball (1 1/2 cr.)
HPER A364 Coaching of Track and Field (1 1/2 cr.)
HPER A365 Coaching of Wrestling (1 1/2 cr.)
HPER A366 Coaching of Gymnastics (1 1/2 cr.)
HPER A367 Coaching of Swimming and Diving (1 1/2 cr.)
HPER A368 Coaching of Tennis (1 1/2 cr.)
HPER A369 Coaching of Golf (1 1/2 cr.)
HPER A370 Coaching of Soccer (1 1/2 cr.)
HPER A371 Coaching of Volleyball (1 1/2 cr.)

Elective Theory Courses (Elect 3 hours)
HPER P396 Historical and Philosophical Foundations of Physical Education (3 cr.)
HPER P444 Issues in Physical Education (3 cr.)
HPER P447 Special Problems in Physical Education and Athletics (3 cr.)
HPER P450 Organizational and Psychological Foundations of Coaching (Excluding Coaching Emphasis Majors) (3 cr.)
HPER P499 Research in Physical Education and Athletics (3 cr.)

Emphasis Areas in All-Grade License Program  Contact departmental offices or advisers for complete information.
Aquatics
Coaching
Dance
Elementary Physical Education

Suggested Course Schedule for First Year in Physical Education Major  (Teacher Education)
First Semester, Total 14-15 cr.
HPER P220 Foundations of Racquet Sports (2 cr.)
HPER P240 Foundations of Physical Education (2 cr.)
HPER P300 Foundations of Stunts, Tumbling, and Apparatus (2 cr.)
Humanities: Written Expression (3 cr.)
Social and Behavioral Sciences (3 cr.)
Physical Sciences or Mathematics (3 cr.)
OR
Electives (2 cr.)

Second Semester, Total 14-16 cr.
HPER P310 Foundations of Conditioning and Self-Testing Activities (2 cr.)
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
Anat. A215 Basic Human Anatomy (5 cr.)
Spcch. S121 Public Speaking (2 cr.)
Social and Behavioral Sciences (3 cr.)
OR
Humanities: Oral and Written Expression (3-5 cr.)
Take teacher education admission test.

Physical Education Major

Dance: Teaching Option
Four-year program with a concentration in dance leading to a Secondary Provisional Teaching Certificate and the degree Bachelor of Science in Physical Education.

Teaching Certification
HPER P220 Foundations of Racquet Sports (2 cr.)
HPER P290 Movement Experiences for Preschool and Elementary School Children (2 cr.)
HPER P300 Foundations of Stunts, Tumbling, and Apparatus (2 cr.)
HPER P320 OR P340 Foundations of Team/Contemporary Activities I, II (2 cr.)
HPER P390 Growth and Motor Performance of School Age Youth K-12 (2 cr.)
HPER P397 Kinesiology (3 cr.)
HPER P398 Adapted Physical Education (3 cr.)
HPER P409 Basic Physiology of Exercise (3 cr.)
HPER P497 Organizational and Curricular Structures of Physical Education K-12 (2 cr.)
Select 2 courses from the following:
HPER 355 Foundations of Skill Core (Topics vary by semester) (1 cr.)
HPER 326 Advanced Life Saving and Water Safety Instruction (2 cr.)

Dance (38 cr.)
HPER D151 Introductory Rhythmic Training (1 cr.)
HPER E100 Stretch and Strength for Dance (1 cr.)
HPER E100 Beginning Tap Dance (1 cr.)
HPER E100 Beginning Jazz Dance (1 cr.)
HPER E100 Intermediate Tap Dance (1 cr.)
HPER E100 Intermediate Jazz Dance (1 cr.)
HPER E155 Modern Dance (1 cr.)
HPER D161 Foundations of Modern Dance (2 cr.)
HPER E255 Modern Dance Intermediate (1 cr.)
HPER D211 Advanced Technique I (2 cr.)
HPER D212 Advanced Technique II (2 cr.)
HPER D221 Dance Composition I (2 cr.)
HPER D222 Dance Composition II (2 cr.)
HPER D252 Rhythmic Form and Analysis (2 cr.)
HPER D201 Modern Dance Workshop I, II, and III (1 cr. each)
HPER D200 Dance in Elementary Education (1 cr.)
HPER D311 Theory and Practice of Dance Technique I (2 cr.)
HPER D312 Theory and Practice of Dance Technique II (2 cr.)
HPER D331 Dance and Allied Arts I (3 cr.)
HPER E257 Modern Dance for Theater and Drama Majors (1 cr.)
HPER E355 Advanced Modern Dance (1 cr.)
HPER D261 IU Dance Theater (arr.)
HPER P447 Special Problems in Physical Education (arr.)
HPER D332 Dance and Allied Arts II (3 cr.)
HPER D351 Teaching of Modern Dance (1 cr.)
HPER D353 Musical Resources for Dance (2 cr.)
HPER D461 Basic Methods of Dance Notation (1 cr.)
HPER D441 Dance Production I (3 cr.)
HPER D442 Dance Production II (3 cr.)

General Education
See adviser for general education requirements.

Suggested Course Schedule for First Year in Physical Education Major
(Dance: Teaching Option)
First Semester, Total 15-16 cr.
HPER P220 Foundations of Racquet Sports (2 cr.)
Physical Sciences or Mathematics (3 cr.)
Humanities: Written Expression (2-3 cr.)
HPER E155 Modern Dance (1 cr.)
HPER D151 Introduction to Rhythmic Training (1 cr.)
Social and Behavioral Science (3 cr.)
Mus. M174 Music Appreciation (3 cr.)

Second Semester, Total 16-17 cr.
HPER P320 Foundations of Team/Contemporary Activities I (2 cr.)
HPER E255 Modern Dance (1 cr.)
HPER D161 Fundamentals of Modern Dance (2 cr.)
Anat. A215 Basic Human Anatomy (5 cr.)
Humanities: Oral and Written Expression (3-5 cr.)
Anth. A105 Anthropology (3 cr.)
Physical Education Major

Dance Performance/Choreography Option

The Dance Performance/Choreography option is a four year program emphasizing the performance and choreographic aspects of modern dance and leading to the degree Bachelor of Science in Physical Education.

Performance and Choreography (60-62 cr.)
HPER D151 Introductory Rhythmic Training (1 cr.)
HPER E100 Stretch and Strength for Dance (1 cr.)
HPER E100 Beginning Tap Dance (1 cr.)
HPER E100 Beginning Jazz Dance (1 cr.)
HPER E100 Intermediate Tap Dance (1 cr.)
HPER E100 Intermediate Jazz Dance (1 cr.)
HPER E155 Beginning Modern Dance (1 cr.)
HPER E255 Intermediate Modern Dance (1 cr.)
HPER E257 Modern Dance for Theater and Drama Majors (1 cr.)
HPER E355 Advanced Modern Dance (1 cr.)
HPER D161 Foundations of Modern Dance (2 cr.)
Mus. J101 Ballet (2 cr.)
Mus. J102 Ballet (2 cr.)
Mus. J103 Ballet (2 cr.)
HPER D121 Dance Improvisation (1 cr.)
HPER D201 Modern Dance Workshop I, II, III, and IV (1 cr. each)
HPER D211 Advanced Technique I (2 cr.)
HPER D212 Advanced Technique II (2 cr.)
HPER D218 Modern Jazz Dance Technique (1 cr.)
HPER D221 Dance Composition I (2 cr.)
HPER D222 Dance Composition II (2 cr.)
HPER D252 Rhythmic Form and Analysis (2 cr.)
HPER D311 Theory and Practice of Dance Technique I (2 cr.)
HPER D312 Theory and Practice of Dance Technique II (2 cr.)
Comp. Lit. C355 Literature, the Arts, and Their Interrelationship (3 cr.)
HPER D332 Dance and the Allied Arts II (3 cr.)
HPER D351 Teaching of Modern Dance (1 cr.)
HPER D200 Dance in Elementary Education (1 cr.)
HPER P495 Laboratory Teaching (1 cr.)
HPER D353 Musical Resources for Dance (2 cr.)
HPER D421 Choreographic Project (2 cr.)
HPER D441 Dance Production I (2 cr.)
HPER D442 Dance Production II (2 cr.)
HPER D461 Basic Methods of Dance Notation (offered fall semester—odd years) (1 cr.)
HPER D462 Dance Summary (offered second semester, both 7 weeks) (1 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
HPER P452 Motor Learning (3 cr.)
HPER P397 Kinesiology (3 cr.)
HPER P409 Basic Exercise Physiology (3 cr.)
HPER D261 IU Dance Theater (arr.)
HPER P447 Special Problems in Physical Education (arr.)

General Education

See adviser for general education requirements.

Suggested Course Schedule for First Year in Physical Education Major
(Dance Performance/Choreography Option)

First Semester, Total 14-16 cr.
HPER D151 Introduction to Rhythmic Training (1 cr.)
HPER E155 Beginning Modern Dance (1 cr.)
HPER E100 Stretch and Strength for Dancers (1 cr.)
HPER E100 Beginning Tap Dance (1 cr.)
HPER E100 Beginning Jazz Dance (1 cr.)
HPER E168 Swimming OR Proficiency (0-1 cr.)
HPER D261 IU Dance Theater (1 cr.)
Spcn. S121 Public Speaking (2 cr.)
Psy. P101 Introduction to Psychology (3 cr.)
Eng. W131 English Composition (3 cr.)
OR
Eng. L141 Introduction to Writing and Literature (4 cr.)

Second Semester, Total 16-17 cr.
HPER E100 Intermediate Tap Dance Technique (1 cr.)
HPER E100 Intermediate Modern Jazz Dance Technique (1 cr.)
HPER E257 Modern Dance for Theatre and Drama Majors (1 cr.)
HPER E355 Modern Dance I Advanced (1 cr.)
Psy. P212 Introduction to Exercise Science (3 cr.)
HPER D261 I Dance Theatre (continued from fall) (1 cr.)
Anat. A215 Anatomy (5 cr.)
English Elective Oral/Written Expression (3-4 cr.)

Physical Education Major

Sports Science Emphasis
The program in sports science, a four-year curriculum in the subject matter of human movement and sport, provides the student with an understanding of current theoretical problems. Through the use of restricted electives, the student is asked to relate knowledge from other disciplines to the study of human performance.

Required For All Students
HPER P310 Foundations of Conditioning and Self-Testing Activities (2 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
HPER P397 Kinesiology (3 cr.)
HPER P409 Basic Physiology of Exercise (3 cr.)
HPER P452 Motor Learning (3 cr.)
HPER E119 Conditioning (2 cr.)
Select two of the following:
HPER P220 Foundations of Racquet Sports (2 cr.)
HPER P224 Foundations of Dance Activities (2 cr.)
HPER P300 Foundations of Stunts, Tumbling, and Apparatus (2 cr.)
HPER P320 Foundations of Team/Contemporary Activities I (2 cr.)
HPER P340 Foundations of Team/Contemporary Activities II (2 cr.)
Select one of the following:
HPER P333 Sport in America: Historical Perspectives (3 cr.)
HPER P398 Adapted Physical Education (3 cr.)
HPER P450 Organizational and Psychological Foundations for Coaching (3 cr.)
HPER P490 Motor Development of Pre-School and Elementary School Children (3 cr.)
Select one of the following or Sports Science Elective:
HPER P48 Internship in Sports Science (3 cr.)
HPER P492 Laboratory Assisting or Field Experience in Sports Science (3 cr.)
HPER P499 Research in Physical Education (3 cr.)
Select two of the following:
Psy. P400 Psychological Measurement and Scaling (2 cr.)
HPER P493 Tests and Measurements in Physical Education (3 cr.)
HPER P447 Topic: Introduction to Prescription and Rehabilitation Exercise Program (3 cr.)
HPER P446 Sports Science Seminar (3 cr.)
HPER N231 Human Nutrition (3 cr.)
Select one of the following:
Bus. K201 The Computer in Business (3 cr.)
C.Sci. C201 Introduction to Computer Programming (4 cr.)
HPER R337 Computer Applications in Parks and Recreation (3 cr.)
HPER P447 Topic: Computer Applications in Physical Education (3 cr.)
Elect any two HPER "E” courses and/or P355 Foundation Skills Core (1 cr. each)
All Students Must Present Evidence of Certification in Cardiopulmonary Resuscitation (CPR).

Humanities (11 credit hours)
Required:
Spcn. S121 Public Speaking (2 cr.)
Select 9 credit hours from:
- Eng. W131 English Composition (3 cr.)
- Eng. W231 Professional Writing (3 cr.)
- Eng. W103 Introduction to Creative Writing (3 cr.)
- Eng. W203 Creative Writing (3 cr.)
- Eng. W350 Advanced Expository Writing (3 cr.)
- Eng. L141 Introduction to Writing and Literature (4 cr.)
- Eng. L142 Introduction to Writing and Literature (4 cr.)
- Jour. C227 Writing for Publication (3 cr.)
- Afro. A141 Introduction to Writing and Black Literature (4 cr.)
- Afro. A142 Introduction to Writing and Black Literature (4 cr.)

**Social Sciences (12 cr.)**

**Required:**
- Anth. A105 Human Origins and Prehistory (3 cr.)
- Psy. K300 Statistical Techniques (3 cr.)
- Psy. P101 Introductory Psychology I (3 cr.)

**Select 3 credit hours from:**
- Soc. S100 Sociological Analysis of Society (3 cr.)
- Soc. S101 Social Problems and Policies (3 cr.)

**Life and Physical Sciences (26-31 credit hours)**

**Required:**
- Phsl. P215 Basic Mammalian Physiology (5 cr.)
- Anat. A215 Basic Human Anatomy (5 cr.)
- Phys. P201 General Physics (5 cr.)

**Select from the following:**
- Math. M119 Brief Survey Calculus I (3 cr.) and
  - Math. M120 Brief Survey Calculus II (3 cr.)
  - OR
  - Math. M215 Analytic Geometry and Calculus I (5 cr.) and
  - Math. M216 Analytic Geometry and Calculus II (5 cr.)

**Select from the following:**
- Chem. C105 Elementary Chemistry (3 cr.) and
  - Chem. C125 Elementary Chemistry Laboratory (2 cr.)
  - OR
  - Chem. C101 Elementary Chemistry I (3 cr.) and
  - Chem. C121 Elementary Chemistry Laboratory I (2 cr.)
  - AND
  - Chem. C102 Elementary Chemistry II (3 cr.)
  - Chem. C122 Elementary Chemistry Laboratory II (2 cr.)

**Sports Science Electives**

Students must elect 16 credit hours from the following courses:
- Anat. A464 Histology (5 cr.)
- Anth. A303 Evolution and Prehistory (3 cr.)
- Anth. B200 Bioanthropology and B301 Lab (3-2 cr.)
- Anth. B400 Human Growth and Development (3 cr.)
- Biol. L104 Introduction to Biology (3 cr.)
- Biol. L111 Diversity and Function (4 cr.)
- Biol. L112 Introduction to Biology (5 cr.)
- Biol. L267 Cell Physiology (3 cr.)
- Biol. L302 Topics in Human Biology (3 cr.)
- Biol. S304 Animal Biology (4 cr.)
- Biol. S305 Cell Biology (5 cr.)
- Biol. S306 Genetics (5 cr.)
- Biol. L350 Environmental Biology (3 cr.)
- Biol. B369 Cell Physiology Laboratory (3 cr.)
- Biol. L364 Principles of Genetics (3 cr.)
- Biol. L404 Genetic and Cell Engineering Techniques (3 cr.)
- Biol. Z406 Endocrinology (3 cr.)
- Biol. M400 Biomedical Sciences Documentation (1 cr.)
- Chem. C106 Quantitative Chemistry (5 cr.)
- Chem. C341 Organic Chemistry I (3 cr.)
Chem. C342 Organic Chemistry II (3 cr.)
Chem. C343 Organic Chemistry Laboratory (2 cr.)
Chem. C344 Organic Laboratory (2 cr.)
Chem. C360 Introduction to Physical Chemistry (3 cr.)
Chem. C483 Biological Chemistry (3 cr.)
Chem. C485 Biosynthesis and Physiology (3 cr.)
Clas. C209 Medical Terms from Greek and Latin (2 cr.)
C.Sci. C251 Foundations of Computer Science (3 cr.)
C.Sci. C301 FORTRAN Programming (1 cr.)
C.Sci. C311 Programming Languages (4 cr.)
C.Sci. C335 Computer Structures (4 cr.)
C.Sci. C343 Data Structures (4 cr.)
Hpsc. X200 Introduction to Scientific Reasoning (3 cr.)
Math. M126 Trigonometric Functions (2 cr.)
Math. M301 Applied Linear Algebra (3 cr.)
Math. M303 Linear Algebra for Undergraduates (3 cr.)
Math. T321 Intuitive Topology (3 cr.)
Phil. P105 Thinking and Reasoning (3 cr.)
Phil. P150 Elementary Logic (3 cr.)
Phil. P250 Symbolic Logic I (3 cr.)
Phil. P251 Symbolic Logic II (3 cr.)
Phys. P202 General Physics 2 (5 cr.)
Phys. P302 Elementary Electronics (2 cr.)
Phys. P320 Introduction to Biophysics (3 cr.)
Phsl. P331 Organ Systems of Mammals (3 cr.)
Phsl. P416 Comparative Animal Physiology (3 cr.)
Phsl. P417 Neurobiology (3 cr.)
Psy. P102 Introduction to Psychology (3 cr.)
Psy. P201 Psychology and Human Behavior (3 cr.)
Psy. P211 Methods of Experimental Psychology (3 cr.)
Psy. P316 Psychology of Childhood and Adolescence (3 cr.)
Psy. P324 Abnormal Psychology (3 cr.)
Psy. P325 Psychology of Learning (3 cr.)
Psy. P326 Physiological Psychology (3 cr.)
Psy. P327 Psychology of Motivation (3 cr.)
Psy. P329 Sensation and Perception (3 cr.)
Psy. P335 Cognitive Psychology (3 cr.)
Psy. P336 Psychological Tests and Individual Differences (3 cr.)
Psy. P405 Elementary Mathematical Psychology (3 cr.)
Psy. P424 Laboratory in Sensation and Perception (2 cr.)
Psy. P426 Laboratory in Physiological Psychology (3 cr.)
Psy. P427 Laboratory in Psychological Measurement (2 cr.)
Psy. P435 Laboratory in Human Learning (3 cr.)
Psy. P465 Psychophysics of Hearing (3 cr.)

Suggested Course Schedule for First Year in Physical Education Major (Sports Science Emphasis)

First Semester, Total 16 cr.
HPER P310 Foundations of Conditioning and Self-Testing Activities (2 cr.)
HPER P112 Introduction to Exercise Science (3 cr.)
Math. M119 Brief Survey of Calculus† (3 cr.)
Eng. W131 English Composition (3 cr.)
Chem. C105 Elementary Chemistry† (3 cr.)
Chem. C125 Elementary Chemistry Laboratory (2 cr.)

Second Semester, Total 17 cr.
HPER E119 Conditioning (2 cr.)
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)

† A more advanced course may be selected, commensurate with the student's competency.
Phys. P201 General Physics (5 cr.)
Psy. P101 Introductory Psychology (3 cr.)
Schn. S121 Public Speaking (2 cr.)
Elective (Recommend Math. M120) (3 cr.)

**Physical Education Major**

**Sports Communication: Broadcast Emphasis**

Four-year program with emphasis on broadcasting leading to the degree Bachelor of Science in Physical Education. Contact departmental offices and advisers for complete information.

**Required for All Students**

HPER E119 Conditioning (2 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
HPER P390 Growth and Motor Performance of School Age Youth K-12 (2 cr.)
HPER P333 Sport in America: Historical Perspectives (3 cr.)
HPER P397 Kinesiology (3 cr.)
HPER P409 Basic Exercise Physiology (3 cr.)
HPER P448 Sports Science Internship or HPER “P” course (3 cr.)
HPER P324 Recreational Sports Programming (3 cr.)
HPER P450 Organizational and Psychological Foundations of Coaching (3 cr.)
HPER P452 Motor Learning (3 cr.)
HPER A280 Principles of Athletic Training andEmergency Care (2 cr.)
HPER A483 Principles of Sports Officiating (1 cr.)
HPER A484 Interscholastic Athletic Programs (2 cr.)
Bus. K201 The Computer in Business (3 cr.)

OR

HPER R337 Computer Applications in Parks and Recreation (3 cr.)

**Humanities (11 cr.)**

Eng. W131 English Composition (3 cr.)
Eng. G205 Introduction to the English Language (3 cr.)
Schn. S122 Interpersonal Communication (2 cr.)
Jour. J200 Writing for Mass Media (3 cr.)

**Life and Physical Sciences (10 cr.)**

Anat. A215 Basic Human Anatomy (5 cr.)
Phsl. P115 Basic Mammalian Physiology (5 cr.)

**Social Sciences (12 cr.)**

Econ. E103 Introduction to Microeconomics (3 cr.)
Psy. P101 Introductory Psychology (3 cr.)
Psy. P327 Psychology of Motivation (3 cr.)
Soc. S230 Society and the Individual (3 cr.)

**Broadcast Communications Required Courses (24 cr.)**

Jour. J210 Visual Communication (3 cr.)
Tel. R202 Foundations of Telecommunications I (3 cr.)
Tel. R203 Foundations of Telecommunications II (3 cr.)
Tel. R206 The Broadcast Program (3 cr.)
Tel. R208 Audio Production (3 cr.)
Tel. R211 Broadcast Writing (3 cr.)
Tel. R304 Broadcast Advertising (3 cr.)
Tel. R309 Television Production (3 cr.)
Tel. R414 Content Regulation of Telecommunications (3 cr.)

**Complete a minimum of 13 credit hours from the following HPER courses:**

HPER P220 Foundations of Racquet Sports (2 cr.)
HPER P320 Foundations of Team/Contemporary Activities I (2 cr.)
HPER P340 Foundations of Team/Contemporary Activities II (2 cr.)
HPER P355 Foundations of Skill Core (1 cr.)
HPER A361 Coaching of Football (1½ cr.)
HPER A362 Coaching of Basketball (1½ cr.)
HPER A363 Coaching of Baseball (1½ cr.)
HPER A364 Coaching of Track and Field (1½ cr.)
HPER A365 Coaching of Wrestling (1½ cr.)
HPER A366 Coaching of Gymnastics (1½ cr.)
HPER A367 Coaching of Swimming and Diving (1½ cr.)
HPER A368 Coaching of Tennis (1/2 cr.)
HPER A369 Coaching of Golf (1/2 cr.)
HPER A370 Coaching of Soccer (1/2 cr.)
HPER A371 Coaching of Volleyball (1/2 cr.)
HPER E123 Diving (1 cr.)
HPER E168 Swimming—Non Swimmers (1 cr.)
HPER E268 Swimming—Intermediate (1 cr.)
HPER E269 Swimming—High Intermediate (1 cr.)
HPER E377 Advanced Life Saving (1 cr.)
HPER E477 Water Safety Instructor (1 cr.)
HPER P326 Advanced Life Saving and Water Safety Instruction (1 cr.)
HPER E119 Conditioning (2 cr.)
HPER E475 Lifeguarding Certification (1 cr.)

Select a minimum of 9 credit hours from two or more departments from the following list of courses:

**Business**
- Bus. M300 Introduction to Marketing Management (3 cr.)
- Bus. Z302 Management and Behavior in Organization (3 cr.)
- Bus. M415 Advertising and Promotion Management (3 cr.)

**Economics**
- Econ. E104 Introduction to Macroeconomics (3 cr.)

**English**
- Eng. W143 Expository Writing (1 cr.)
- Eng. W103 Introductory Creative Writing (3 cr.)
- Eng. W231 Professional Writing Skills (3 cr.)
- Eng. G302 Structure of Modern English (P: G205) (3 cr.)
- Eng. W350 Advanced Expository Writing (3 cr.)

**Journalism**
- Jour. J353 Broadcast News Editing (3 cr.)
- Jour. J470 Broadcast Media Analysis (3 cr.)

**Psychology**
- Psy. P111 Introductory Laboratory Psychology (2 cr.)
- Psy. P301 Psychology of Human Problems (P: Junior Standing) (3 cr.)
- Psy. P319 Psychology of Personality (P: 5 hours Psychology) (3 cr.)
- Psy. P327 Psychology of Motivation (3 cr.)
- Psy. P335 Cognitive Psychology (P: 5 hours Psychology) (3 cr.)

**Sociology**
- Soc. S101 Social Problems and Policies (3 cr.)
- Soc. S210 Social Organization (3 cr.)
- Soc. S215 Social Change (3 cr.)
- Soc. S309 The Community (P: 3 hours Sociology) (3 cr.)
- Soc. S317 Social Stratification (P: 3 hours Sociology) (3 cr.)
- Soc. S335 Race and Ethnic Relations (3 cr.)
- Soc. S434 Language and Communications in Groups (P: S230 or consent of instructor) (3 cr.)

**Speech**
- Spch. S221 Speech and Human Behavior (3 cr.)
- Spch. S223 Social Influence on Speech (3 cr.)
- Spch. S323 Speech Composition (3 cr.)
- Spch. S324 Persuasion (3 cr.)
- Spch. S325 Voice and Diction (3 cr.)

Students must select 12 credit hours of additional electives.

**Suggested Course Schedule for First Year in Physical Education Major**

(Sports Communication: Broadcast Emphasis)

**First Semester, Total 15 cr.**

HPER Electives (3 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
Eng. W131 English Composition (3 cr.)
Psy. P101 Introduction to Psychology (3 cr.)
Soc. S230 Society and the Individual (3 cr.)

1 Students must complete a minimum of 13 credit hours selected from those HPER courses approved for sports communication.
Second Semester, Total 16 cr.
HPER Electives (3 cr.)
Anat. A215 Basic Human Anatomy (5 cr.)
Jour. J210 Visual Communication (3 cr.)
Jour. J200 Writing for Mass Media (3 cr.)
Sphc. S122 Interpersonal Communication (2 cr.)

Physical Education Major

Sports Communication: Print Emphasis
Four-year program with emphasis on journalism leading to the degree Bachelor of Science in Physical Education. Contact departmental offices and advisers for complete information.

Required for All Students
HPER E119 Conditioning (2 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
HPER P390 Growth and Motor Performance of School Age Youth K-12 (2 cr.)
HPER P333 Sport in America: Historical Perspectives (3 cr.)
HPER P397 Kinesiology (3 cr.)
HPER P409 Basic Exercise Physiology (3 cr.)
HPER P324 Recreational Sports Programming (3 cr.)
HPER P448 Sports Science Internship or HPER “P” course (3 cr.)
HPER P450 Principles and Psychology of Coaching (3 cr.)
HPER P452 Motor Learning (3 cr.)
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
HPER A483 Principles of Sports Officiating (1 cr.)
HPER A484 Interscholastic Athletic Programs (2 cr.)
Bus. K201 The Computer in Business (3 cr.)
OR
HPER R337 Computer Applications in Parks and Recreation (3 cr.)
Tel. R208 Audio Production (3 cr.)

Humanities (6 cr.)
Eng. W131 English Composition (3 cr.)
Eng. G205 Introduction to the English Language (3 cr.)
Sphc. S122 Interpersonal Communication (2 cr.)

Life and Physical Sciences (10 cr.)
Anat. A215 Basic Human Anatomy (5 cr.)
Phsll. P215 Basic Mammalian Physiology (5 cr.)

Social Sciences (9 cr.)
Econ. E103 Introduction to Microeconomics (3 cr.)
Psy. P101 Introductory Psychology (3 cr.)
Soc. S230 Society and the Individual (3 cr.)

Print Communications Required Courses (27 cr.)
Jour. J200 Writing for Mass Media (3 cr.)
Jour. J210 Visual Communications (3 cr.)
Jour. J337 Economics of Mass Media (3 cr.)
Jour. J341 Newspaper Reporting (3 cr.)
Jour. J343 Broadcast Reporting (3 cr.)
Jour. J344 Photo Journalism Reporting (3 cr.)
Jour. J351 Newspaper Editing (3 cr.)
Jour. J410 The Media As Social Institutions (3 cr.)
Journalism Elective (3 cr.)

Complete a minimum of 13 credit hours from the following HPER courses:
HPER P220 Foundations of Racquet Sports (2 cr.)
HPER P320 Foundations of Team/Contemporary Activities I (2 cr.)
AND/OR
HPER P340 Foundations of Team/Contemporary Activities II (2 cr.)
HPER P355 Foundations Skill Core (1 cr.)
HPER P224 Foundations of Dance Activities (2 cr.)
HPER A361 Coaching of Football (1 1/2 cr.)
HPER A362 Coaching of Basketball (1 1/2 cr.)
HPER A363 Coaching of Baseball (1 1/2 cr.)
HPER A364 Coaching of Track and Field (1½ cr.)
HPER A365 Coaching of Wrestling (1½ cr.)
HPER A366 Coaching of Gymnastics (1½ cr.)
HPER A367 Coaching of Swimming and Diving (1½ cr.)
HPER A368 Coaching of Tennis (1½ cr.)
HPER A369 Coaching of Golf (1½ cr.)
HPER A370 Coaching of Soccer (1½ cr.)
HPER A371 Coaching of Volleyball (1½ cr.)
HPER E119 Conditioning (2 cr.)
HPER E123 Diving (1 cr.)
HPER E168 Swimming—Non Swimmers (1 cr.)
HPER E268 Swimming—Intermediate (1 cr.)
HPER E269 Swimming—High Intermediate (1 cr.)
HPER E377 Advanced Life Saving (1 cr.)
HPER E475 Lifeguarding Certification (1 cr.)
HPER E477 Water Safety Instructor (1 cr.)
HPER F326 Advanced Life Saving and Water Safety Instruction (2 cr.)

Select a minimum of 9 credit hours from two or more departments from the following list of courses:

Business
Bus. Z302 Management and Behavior in Organization (3 cr.)
Bus. M415 Advertising and Promotion Management (3 cr.)
Bus. M418 Advertising Strategy

Economics
Econ. E104 Introduction to Macroeconomics (3 cr.)

English
Eng. W143 Expository Writing (1 cr.)
Eng. W103 Introductory Creative Writing (3 cr.)
Eng. W231 Professional Writing Skills (3 cr.)
Eng. G302 Structure of Modern Language (3 cr.)
Eng. W350 Advanced Expository Writing (3 cr.)

Journalism
Jour. J202 Principles of Creative Advertising (3 cr.)
Jour. J465 Graphic Communications (3 cr.)

Psychology
Psy. P111 Introductory Laboratory Psychology (2 cr.)
Psy. P301 Psychology of Human Problems (P: Junior Standing) (3 cr.)
Psy. P319 Psychology of Personality (P: 5 hours psychology) (3 cr.)
Psy. P327 Psychology of Motivation (3 cr.)
Psy. P335 Cognitive Psychology (P: 5 hours psychology) (3 cr.)

Suggested Course Schedule for First Year in Physical Education Major (Sports Communication: Print Emphasis)

First Semester, Total 15 cr.
HPER Electives (3 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
Eng. W131 English Composition (3 cr.)
Psy. P101 Introduction to Psychology (3 cr.)
Soc. S230 Society and the Individual (3 cr.)

Second Semester, Total 16 cr.
HPER Electives (3 cr.)
Anat. A215 Basic Human Anatomy (5 cr.)
Jour. J210 Visual Communication (3 cr.)
Jour. J200 Writing for Mass Media (3 cr.)
Spch. S122 Interpersonal Communication (2 cr.)

Physical Education Major

Sports Marketing and Management Emphasis
Four-year program with emphasis on sports marketing and management leading to the degree Bachelor of Science in Physical Education. Admission to the program is limited (for admission requirements, see Special Requirements and Restrictions section in the front of this bulletin).
Required for All Students
HPER P211 Introduction to Sports Management (3 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
HPER P324 Recreational Sports Programming (3 cr.)
HPER P333 Sport in America: Historical Perspectives (3 cr.)
HPER P411 Legal Aspects and Risk Management for Sport Settings (P: Bus L201) (3 cr.)
HPER P415 Sport Promotions and Public Relations (3 cr.)
HPER P447 Topic: Finance and Budgeting (P: Bus A201) (3 cr.)
OR
SPEA V372 Financial Management and Budgeting
HPER P450 Organization and Psychological Foundations of Coaching (3 cr.)
HPER A484 Interscholastic Athletic Programs (2 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)
HPER P266 Management of Park and Recreation Facilities (P: R160) (3 cr.)
HPER R337 Computer Applications in Park and Recreation (3 cr.)

Humanities (16 cr.)
Eng. W131 English Composition (3 cr.)
Spch. S121 Public Speaking (2 cr.)
HPER R160 Recreation and Leisure (3 cr.)
Select 8 cr. from the following:
Eng. W231 Professional Writing Skills (3 cr.)
OR
Bus. X203 Business Communications (3 cr.)
Spch. S122 Interpersonal Communications (2 cr.)
Spch. S201 Communicating in Public (P: S121) (3 cr.)
Spch. S223 Business and Professional Communication (P: S121) (3 cr.)
Jour. C327 Writing for Publication (3 cr.)
Jour. J20 Writing for Mass Media (P: W131 and typing ability) (3 cr.)
Jour. J210 Visual Communication (3 cr.)
Jour. J320 Principles of Creative Advertising (3 cr.)
Jour. J335 Retail and Direct Advertising (3 cr.)

Life and Physical Sciences (9 cr.)
Math. M118 Finite Mathematics (3 cr.)
Math. M119 Brief Survey of Calculus (3 cr.)
Anat. A215 Basic Human Anatomy (5 cr.)
Phsl. P215 Basic Mammalian Physiology (5 cr.)
HPER P397 Kinesiology (P: A215) (3 cr.)
HPER P409 Basic Exercise Physiology (P: A215, P215) (3 cr.)
HPER H363 Personal Health (3 cr.)

Social Sciences (15 cr.)
Psy. P101 Introductory Psychology I (3 cr.)
Soc. S100 Sociological Analysis of Society (3 cr.)
Econ. E103 Introduction to Microeconomics (3 cr.)
Econ. E104 Introduction to Macroeconomics (3 cr.)
Select 3 cr. from following:
Econ. E270 Introduction to Statistical Theory in Economics and Business (P: M118, M119) (3 cr.)
Psy. P102 Introduction to Psychology II (3 cr.)
Soc. S101 Social Problems and Policies (3 cr.)
Soc. S210 Social Organization (3 cr.)
Soc. S230 Society and the Individual (3 cr.)

Business (18 cr.)
Bus. A201 Introduction to Accounting (P: 26 hrs.) (3 cr.)
Bus. A202 Introduction to Accounting II (P: A201) (3 cr.)
Bus. L201 Legal Environment of Business (P: Sophomore Standing) (3 cr.)
HPER P447 Topic: Fundamentals of Sport Marketing (3 cr.)
Bus. Z302 Managing and Behavior in Organizations (P: Soc. S100 and Psy. 101) (3 cr.)
Bus. Z440 Personnel—Human Resources Management (P: Z302) (3 cr.)
OR
SPEA V373 Personnel Management in the Public Sector (3 cr.)
Sport Management Electives (18 cr.)
Select 18 cr. of sport management-related courses approved by faculty adviser. This may include 3 “E” courses.
Suggested Electives:
"Foundations of" courses such as: P220, P224, P300, P310, P320, P340
"Coaching of" courses such as: A361, A362, A364, A365, etc.
Aquatic "E" courses such as: E123, E168, E268, E377, E417, etc.
Additional Electives from the following:
HPER E119 Conditioning (2 cr.)
HPER P397 Kinesiology (P: A215) (3 cr.)
HPER P409 Basic Exercise Physiology (P: A215, P215) (3 cr.)
HPER P452 Motor Learning (3 cr.)
HPER P498 Practicum in Physical Education/Athletics (1-3 cr.)
HPER P449 Internship in Sport Management (2-12 cr.)
HPER R100 Recreational Sports Leadership (1 cr.)
HPER R272 Recreational Activities and Leadership (P: R160) (3 cr.)
HPER P447 Topic: Introduction to Prescription and Rehabilitation Exercise Program (P: P409) (3 cr.)
HPER R317 Leisure Services in a Military Setting (2 cr.)
HPER R336 Tourism and Commercial Recreation (3 cr.)
HPER R340 Leisure in Modern Society (P: R160, R272) (3 cr.)
HPER R367 Leisure Program Development (P: R272) (3 cr.)
HPER R466 Management of Leisure Services (P: R367) (3 cr.)
HPER P326 Advanced Life Saving and Water Safety Instruction (2 cr.)
HPER P327 Administration, Maintenance, and Construction of Aquatic Facilities (3 cr.)
HPER S351 Leadership Development Shooting Sports (2 cr.)
HPER H318 Drug Use in American Society (3 cr.)
HPER N120 Introduction to Food and Meal Management (3 cr.)
HPER N220 Basic Nutrition (3 cr.)
HPER P355 Foundation of Skill Core (1 cr.)
HPER P398 Adapted Physical Education (3 cr.)
HPER P444 Issues in Physical Education (3 cr.)
Jour. J210 Visual Communication (3 cr.)
Jour. J320 Principles of Creative Advertising (3 cr.)
Jour. J335 Retail and Direct Advertising (3 cr.)
Free Electives (13 cr.)

Suggested Course Schedule for First Year in Physical Education Major (Sports Marketing and Management Emphasis)
First Semester, Total 14 cr.
Eng. W131 English Composition (3 cr.)
Psy. P101 Introductory Psychology I (3 cr.)

OR
Soc. S100 Sociological Analysis of Society (3 cr.)
Srch. S121 Public Speaking (2 cr.)
Econ. E103 Introduction to Microeconomics (3 cr.)
HPER P211 Introduction to Sport Management (3 cr.)
Second Semester, Total 15 cr.
Eng. W231 Professional Writing Skills (3 cr.)
Math. M110 Finite Math (3 cr.)

OR
Math. M119 Brief Survey of Calculus (3 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)

OR
HPER R160 Recreation and Leisure (3 cr.)
Jour. J210 Visual Communication (3 cr.)
Econ. E104 Introduction to Macroeconomics (3 cr.)
Physical Education Minor

Required Courses:
HPER P220 Foundations of Racquet Sports (2 cr.)
HPER P224 Foundations of Dance Activities (2 cr.)
HPER P240 Foundations and Principles of Physical Education (2 cr.)
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
HPER P300 Foundations of Stunts, Tumbling, and Apparatus (2 cr.)
HPER P310 Foundations of Conditioning and Self Testing Activities (2 cr.)
HPER P320 Foundations of Team/Contemporary Activities I (2 cr.)
OR
HPER P340 Foundations of Team/Contemporary Activities II (2 cr.)
HPER P390 Growth and Motor Performance of School Age Youth K-12 (2 cr.)
HPER P397 Kinesiology (P: Anat. A215) (3 cr.)
HPER P497 Organizational and Curricular Structures of Physical Education (2 cr.)

Select two courses from the following:
HPER A361 Coaching Football (1 1/2 cr.)
HPER A362 Coaching of Basketball (1 1/2 cr.)
HPER A363 Coaching of Baseball (1 1/2 cr.)
HPER A364 Coaching of Track and Field (1 1/2 cr.)
HPER A365 Coaching of Wrestling (1 1/2 cr.)
HPER A366 Coaching of Gymnastics (1 1/2 cr.)
HPER A367 Coaching of Swimming and Diving (1 1/2 cr.)
HPER A368 Coaching of Tennis (1 1/2 cr.)
HPER A369 Coaching of Golf (1 1/2 cr.)
HPER A370 Coaching of Soccer (1 1/2 cr.)
HPER A371 Coaching of Volleyball (1 1/2 cr.)

Teachers of swimming in the state of Indiana must hold a valid WSI Certificate or its equivalent.

Coaching Endorsement
The Coaching Endorsement is intended for non-physical education majors who are pursuing majors in other teaching areas.

Required Courses
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
HPER P450 Organizational and Psychological Foundations of Coaching (3 cr.)
HPER P397 Kinesiology (P: Anat. A215) (3 cr.)

Select 5 credit hours from the following, including a minimum of one coaching class:
HPER A361 Coaching of Football (1 1/2 cr.)
HPER A362 Coaching of Basketball (1 1/2 cr.)
HPER A363 Coaching of Baseball (1 1/2 cr.)
HPER A364 Coaching of Track and Field (1 1/2 cr.)
HPER A365 Coaching of Wrestling (1 1/2 cr.)
HPER A366 Coaching of Gymnastics (1 1/2 cr.)
HPER A367 Coaching of Swimming and Diving (1 1/2 cr.)
HPER A368 Coaching of Tennis (1 1/2 cr.)
HPER A369 Coaching of Golf (1 1/2 cr.)
HPER A370 Coaching of Soccer (1 1/2 cr.)
HPER A371 Coaching of Volleyball (1 1/2 cr.)
HPER P424 Gymnastics: Judging and Composition (P: HPER P300) (2 cr.)
HPER A483 Principles of Sports Officiating (1 cr.)
HPER A484 Interscholastic Athletic Programs (2 cr.)

Athletic Training Emphasis
The Athletic Training emphasis may be earned in conjunction with the major in Health and Safety Education or with the major in Physical Education. Admission to the program is limited

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1 Training curriculum has been approved by the National Athletic Trainers' Association.
Required for All Students Admitted to Athletic Training Emphasis
Anat. A215 Basic Human Anatomy (5 cr.)
Phsl. P215 Basic Mammalian Physiology (5 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)
HPER H363 Personal Health (3 cr.)
HPER P409 Basic Physiology of Exercise (3 cr.)
HPER N231 Human Nutrition (3 cr.)
HPER P397 Kinesiology (3 cr.)
HPER P396 Adapted Physical Education (3 cr.)
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
HPER A281 Basic Principles of Athletic Training (3 cr.)
HPER A282 Basic Techniques of Taping and Bandaging (3 cr.)
HPER A381 Laboratory Practice in Athletic Training I (2 cr.)
HPER A382 Laboratory Practice in Athletic Training II (2 cr.)
HPER A383 Scientific Foundations of Athletic Training (3 cr.)
HPER A481 Practicum in Athletic Training (2 cr.)

Procedure for Admission of Students to the Undergraduate Athletic Training Program Emphasis
1. Students who desire entrance into the Athletic Training program emphasis and believe that they have met entrance requirements (see University Division Bulletin or HPER Bulletin), or are in the process of doing so, should obtain an application form from the School of HPER Dean's Office (Room 111). The completed form, together with the first semester and second semester (mid-term report) grade slips, must be presented to the dean's office by April 1.
2. The student's academic record will be placed on the application form and will be forwarded to the coordinator of the Athletic Training program. During the month of April a selection committee of three faculty members will interview the student on matters related to the student's:
   a. Career-goal interest in athletic training and other aspects of the major program
   b. Previous experience in athletics
   c. Previous experience in athletic training
   d. Scholastic record and academic progress
3. Based upon the student's academic standing (which will be determined upon receipt of final grade slips for the semester of application), the result of the interview, and the number of positions available in the program, the Athletic Training program coordinator will notify the department chairperson by June 1 of the selection committee's decision on the student's application.
4. The chairperson will forward the decision to the dean's office by June 15, and students will be notified by July 1 as to whether they are accepted into the program.

Recreation Major
This curriculum is designed to provide a broad general education coupled with management, leadership, and supervision course work, and practicum experience. All majors, regardless of emphasis, are required to take the following core curriculum.

Core Curriculum (78 cr.)
Humanities (11 cr.)
Eng. W131 Elementary Composition (3 cr.)
Sphc. S121 Public Speaking (2 cr.)
Humanities electives (6 cr.)
Social and Behavioral Sciences (12 cr.)
Psy. P101 Introductory Psychology I (3 cr.)
Psy. P102 Introductory Psychology II (3 cr.)
Soc. S100 Sociological Analysis of Society (3 cr.)
Sociology elective (3 cr.)
Life and Physical Sciences (8 cr.)
Math. M118 Finite Mathematics (3 cr.)
Biol. L100 Humans and the Biological World (5 cr.)
Professional (51 cr.)
HPER R160 Recreation and Leisure (3 cr.)
HPER R270 Special Recreation Services (3 cr.)
HPER R271 Dynamics of Outdoor Recreation (3 cr.)
HPER R272 Recreation Activities and Leadership Methods (3 cr.)
HPER R337 Computer Application in Parks and Recreation (3 cr.)
HPER R340 Leisure in Modern Society (3 cr.)
HPER R367 Leisure Program Development (3 cr.)
HPER R466 Management of Leisure Services (3 cr.)
HPER R490 Research and Evaluation (3 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)
Educ. M301 Lab/Field Experiences (0 cr.)
Educ. M363 Professional Field Experience—Internship (15 cr.)

Program Areas—Select 6 credits of applied or skill courses among sports, outdoor recreation, music, dance, drama, and crafts.

Emphasis Requirements (42 cr.)
Student shall elect one of the following four emphases: recreation management (concentrations in armed forces recreation, public recreation and parks, and recreational sports management); outdoor recreation; therapeutic recreation; or program and leadership.

Public Recreation and Parks (42 cr.)
Econ. E103 Introduction to Microeconomics (3 cr.)
Bus. A201 Management Accounting (3 cr.)
Bus. L201 Business Law (3 cr.)
Pol.Sc. Y103 Introduction to American Politics (3 cr.)
Sphc. S223 Business and Professional Speaking (3 cr.)
HPER R266 Management of Special Facilities I (3 cr.)
HPER R267 Management of Special Facilities II (3 cr.)
HPER R324 Recreational Sports Programming (3 cr.)
HPER E338 Recreation Resource Management (3 cr.)
HPER R468 Planning Park and Recreation Facilities (3 cr.)
Life and Physical Science elective (3 cr.)
Electives (9 cr.)

Armed Forces Recreation (42 cr.)
Hist. H220 American Military History (3 cr.)
OR
Hist. H105 American History I (3 cr.)
Pol.Sc. Y109 Introduction to World Politics (3 cr.)
HPER R381 Introduction to Armed Forces Recreation (3 cr.)
HPER R482 Trends and Issues in Armed Forces Recreation (3 cr.)

30 credits from one of the following concentrations/emphases:
- Outdoor Recreation
- Public Parks and Recreation
- Program and Leadership
- Recreational Sports Management

Recreational Sports Management (42 cr.)
Bus. A201 Introduction to Accounting I (3 cr.)
Bus. L201 Legal Environment of Business (3 cr.)
Eng. W231 Professional Writing Skills (3 cr.)
Econ. E103 Introduction to Microeconomics (3 cr.)
Pol.Sc. Y103 Introduction to American Politics (3 cr.)
Sphc. S223 Business and Professional Communication (2 cr.)
HPER R324 Recreational Sports Programming (3 cr.)
HPER R422 Economics and Marketing for Leisure Services (3 cr.)
HPER R471 Recreational Sports Personnel (3 cr.)
HPER R472 Recreational Sports Management (3 cr.)
HPER P326 Advanced Life Saving and Water Safety Instruction (2 cr.)
Life and Physical Science elective (3 cr.)
General Electives (8 cr.)
Outdoor Recreation (42 cr.)
Biol. Z265 Field Biology
OR
Biol. L350 Environmental Biology (3 cr.)
Science electives (9 cr.)
HPER R280 Nature Study (3 cr.)
HPER R281 Landscape Horticulture (3 cr.)
HPER R338 Recreation Resource Management (3 cr.)
HPER R372 Interpretative Resources and Techniques (3 cr.)
Educ. R423 Utilization of Audio Visual Materials (3 cr.)
Electives (15 cr.)

Therapeutic Recreation (42 cr.)
Clas. C209 Medical Terminology (2 cr.)
Anat. A215 Basic Human Anatomy (5 cr.)
Phsl. P215 Basic Mammalian Physiology (5 cr.)
Psy. P316 Psychology of Childhood and Adolescence (3 cr.)
Psy. P324 Abnormal Psychology (3 cr.)
HPER R277 Introduction to Therapeutic Recreation (3 cr.)
HPER R378 Techniques in Therapeutic Recreation (3 cr.)
HPER R479 Problems in Therapeutic Recreation (3 cr.)
HPER P397 Kinesiology (3 cr.)
Electives (12 cr.)

Recreation Leadership and Programming (42 cr.)
Soc. S309 The Community (3 cr.)
HPER P150 Life Span Human Development (3 cr.)
Psy. P316 Psychology of Childhood Adolescence (3 cr.)
Bus. C290 Office Organization and Management (3 cr.)
Educ. R423 Utilization of Audio Visual Materials (3 cr.)
HPER R266 Management of Special Facilities I (3 cr.)
HPER R275 Camp Leadership (2 cr.)
HPER R324 Recreational Sports Programming (3 cr.)
HPER R336 Tourism and Commercial Recreation (3 cr.)
HPER R372 Interpretive Resources and Techniques (3 cr.)
Electives (10 cr.)
Life and Physical Science Elective (3 cr.)

Suggested Course Schedule for First Year in Recreation Major.

First Semester, Total 15 cr.
Eng. W131 Elementary Composition (3 cr.)
Sprech. S121 Public Speaking (2 cr.)
Psy. P101 Psychology I (3 cr.)
Soc. S100 Sociological Analysis of Society (3 cr.)
Electives (4 cr.)

Second Semester, Total 16 cr.
Biol. L100 Man and Biological World (5 cr.)
Psy. P102 Psychology II (3 cr.)
Soc. Elective (3 cr.)
HPER R160 Recreation and Leisure (3 cr.)
Electives (2 cr.)

Recreation Minor
Twenty-four credit hours are required from the following.
Items 1, 2, and 3 are required in sequence:
1. HPER R160 Recreation and Leisure (3 cr.)
2. HPER R272 Recreation Activities and Leadership Methods (3 cr.)
   Plus one of the following:
   HPER R266 Management of Park and Recreation Facilities (3 cr.)
   OR
   HPER R270 Special Recreation Services (3 cr.)
   OR
   HPER R271 Dynamics of Outdoor Recreation (3 cr.)
3. HPER R367 Leisure Program Development (3 cr.)
4. A minimum of 4 credits selected from:
   HPER E100 level elective physical education courses
   HPER H160 First Aid and Emergency Care (3 cr.)
   HPER R324 Recreational Sports (3 cr.)
   HPER R340 Leisure in Modern Society (3 cr.)
5. A minimum of 4 credits selected from:
   HPER R275 Dynamics of Camp Leadership (2 cr.)
   HPER R100 Recreation Skills (1 cr. each)
   HPER R367 Leisure Program Development (3 cr.)
6. Other recreation courses needed to meet 24 credit hours.
Graduate Program

Admission to Graduate Study

The graduate program is designed to provide the student with a comprehensive understanding of a chosen field, extensive preparation in a specialized area of interest, and a working knowledge of research techniques. The master's, director's, and doctoral degrees are offered in the areas of health and safety, physical education, and recreation. The Master of Public Health degree is offered in the area of public health education. In addition to these degree programs, the Department of Applied Health Science offers a certificate under appropriately specified conditions.

Applications for Graduate Study

Information about graduate study and application materials may be obtained from the director of Student Services, HPER Building, Room 111, Bloomington, Indiana 47405.

There are separate application procedures for those who are not citizens of the United States and/or those who have had their previous schooling outside of the United States. Such individuals should obtain the International Packet from the Office of Admissions, 814 E. 3rd St., Indiana University, Bloomington, IN 47405, Telephone: 812-335-0661. International applicants please see TOEFL and GRE requirements listed below.

NOTE: Additional, specific application materials must be requested for both the Athletic Training Program and the Preventive/Rehabilitative Program.

Steps for Admission to the Graduate Programs

Admission to certain degree programs in the School of Health, Physical Education, and Recreation may require additional steps; however, admission to all HPER graduate programs include the following:

1. The completed HPER Application for Graduate School Admission (Form 1a) should be submitted to the School of HPER Records Office, HPER 115.

2. The applicant must submit official transcripts of all undergraduate and graduate work taken at institutions other than Indiana University. Although a student may not have completed undergraduate work at the time of application, conditional admission may be made on the strength of the student's work up to the time of application. An official, final transcript from an accredited institution attesting to the award of a baccalaureate degree must be submitted before the student can be formally admitted.

3. The applicant should request three individuals to complete Application Reference Forms on his/her behalf. Writers of references should be individuals who have sufficient knowledge of the applicant's abilities to make informed judgments about his/her ability to succeed in a graduate degree program. Reference forms are included in the application packet.

4. The applicant is requested to submit a small photograph with the application materials.

5. Graduate Record Examination scores (Aptitude Portion only) must be submitted by:
   a.) All applicants for a director's or doctoral degree.
   b.) All applicants for the Master of Science degree within the Department of Physical Education.
   c.) All applicants for the Master of Science in Nutrition within the Department of Applied Health Science.
   d.) All applicants for all other master's degrees whose undergraduate grade point averages are less than 2.8 on a 4.0 scale.
   e.) All international applicants regardless of degree being sought.

Applicants who wish to receive consideration for degree programs that require submission of these scores are advised to take the Graduate Record Examination no later than December. Approximately eight weeks are required for our office to receive GRE scores. Decisions on admissions are begun in February. Take the GRE early!

For information concerning the Graduate Record Examination, write to the Educational Testing Service, Box 9555R, Princeton, New Jersey 08541. For students who are already on the IU Bloomington campus, information can be obtained from the HPER Office of Academic Affairs, HPER 121.
6. International applicants whose native language is not English must submit scores from the TOEFL examination. In those exceptional instances in which TOEFL scores are not available other evidence concerning English proficiency may be considered. Appropriate remedial English courses may be prescribed on the basis of test results. In any case, all entering international students whose native language is not English will be required to take the Indiana University English language examination prior to registration for course work.

7. A nonrefundable application fee of $20 must be submitted to the bursar, using the Graduate Application Fee return envelope. This envelope is included in the application packet. Make a check or money order payable to Indiana University. Applicants who have previously attended Indiana University are exempt from this fee.

NOTE: Credentials submitted for admission become the property of the University and will not be returned to the applicant.

**Application Deadlines**

The deadline for application for admission to the master's degree program with specialization in either athletic training or preventive/rehabilitative exercise is March 1. These are highly selective programs. Fewer than 20 applicants are admitted annually to each of these programs. Additional application materials are required for these two programs and must be specifically requested.

Other students applying for entrance into doctoral programs should submit credentials at least three months prior to the anticipated date of enrollment. Master's and doctoral applicants desiring consideration for assistantships, fellowships, or scholarships should be certain complete credentials have been filed before February 1 in order to receive consideration for the next academic year.

Only individuals who have been admitted to a graduate degree program at the time such decisions are being made can be assured of consideration for assistantships, financial aid awards, or admittance into the athletic training or preventive/rehabilitative exercise programs.

**Admission Status**

The types of admission status are as follows:

1. **Regular (Unconditional)** The applicant has met all admission requirements for the specific degree program and enrolls in accordance with the entry date contained in the application for admission.

   NOTE: Initial registration for courses must occur within 18 months after the applicant has been accepted for admission.

2. **Special Student (Conditional)** The applicant is admitted as a special student with the understanding that successful completion of assigned prerequisites will qualify that individual for regular (unconditional) admission status.

3. **Denied** The applicant is not permitted to pursue the academic program for which application was made.

   Applicants whose record would ordinarily qualify them for admission but who are denied because no places are available in the desired program may request to have their applications reconsidered for admission at some future date.

4. **Continuing Nondegree** The holder of a baccalaureate degree who is not a candidate for a graduate degree may be admitted as a continuing nondegree student. Those wishing to enroll as nondegree students must apply for admission and indicate “nondegree” on the application materials. The application forms are available in the School of HPER Records Office, HPER 115. Official transcripts must be submitted. Before being allowed to enroll, nondegree students must be advised by the director of Academic Support. Nondegree students may enroll only in those courses for which they have obtained specific permission to register. Consideration will be given to the academic background of the individual and course enrollment limitations. If a student initially admitted as a continuing nondegree student later wishes to obtain a graduate degree, a formal admission application must be submitted to the School of HPER. It is important to note that no more than 9 semester credits taken before formal admission to a degree program in the School of HPER may be counted toward a graduate degree.

5. **Transient Students** Students in good standing in any recognized graduate school who plan to return to their former university may also be admitted as special nondegree students. A statement from the dean or departmental chairperson of the home institution...
verifying graduate status will be accepted in lieu of transcripts and letters of recommendation.

6. Audit Status A student who wishes to enroll in a HPER graduate course as an auditor must complete the Permission to Audit Form and return it to the School of HPER Records Office, HPER 115. The privilege of auditing a course is awarded only under special circumstances. Course instructors have the final right of approval on any such arrangement. Letter grades may not be awarded for any course taken as an audit.

Financial Assistance

Applicants interested in a graduate appointment must submit a School of HPER Application for Assistantship (Form IIa) by February 1. These forms are included in the application packet or may be obtained from the director of Academic Support, HPER 115A. Stipends for academic year assistantships range from $4750-$6000, depending upon background and responsibilities assigned.

Students are normally assigned to the department in which they are majoring. Duties may involve assisting faculty with teaching, research, or other departmental duties, teaching classes, or working in the Division of Recreational Sports. Other special assignments may also be made. The credentials of the applicants for each department are reviewed beginning in December and most awards are made by early June. Criteria for selection are scholarship records, experience, previous graduate work, and letters of recommendation.

The School of HPER awards Graduate Fee Scholarships, Graduate Fee Remissions, and University Fellowships to qualified graduate student applicants on a competitive basis. Application forms for these awards are included in the application packet or may be obtained in HPER 115A.

All applicants for a graduate appointment must submit the Indiana University/Bloomington Application for Scholarships and Financial Aids, the national College Scholarship Service Financial Aid Form (FAF), and the Financial Aid Transcript (FAT). These forms are available from the Bloomington Office of Scholarships and Financial Aids (BOFSA), Student Services, Room 208, Indiana University, Bloomington, IN 47405, Telephone 812-335-0321.

The Indiana University Application priority date to be considered for need-based financial assistance for summer session is February 15. The priority date for consideration for academic year assistance is March 1. The completed Indiana University form is submitted to BOFSA at the address listed above. The completed FAF application should be sent to the College Scholarship Service, using those specific instructions, as soon as possible after January 1, but no later than March 1. Additional information concerning other fellowships, scholarships, grants, and loans may be obtained by contacting BOFSA.

General Information on Graduate Programs

Course Programs The specific degree and certificate requirements that must be fulfilled by each student are those appearing in the current bulletin at the time of entry into the University or those in the bulletin current at the time of matriculation. Course requirements for each of the individual graduate programs within the School of HPER are specified in the following sections of this bulletin.

The following is general information related to all HPER graduate programs:

Adviser Each student will be assigned an academic adviser. The program of each candidate must be planned cooperatively by the student and the adviser, taking into account the student’s educational background and objectives. All phases of the student's program are subject to the approval of the adviser. (See "Doctoral Degree")

Grades Quality points are assigned for purposes of determining the cumulative grade point average as follows: A+ = 4.37; A = 3.7; A− = 3.3; B+ = 3.0; B = 2.7; C+ = 2.3; C = 2.0; C− = 1.7; D+ = 1.3; D = 1.0; D− = 0.7; F = 0. No points are assigned for I, S, P, or W.

Incomplete Grades A grade of Incomplete (I) is given only when the work of the course is substantially completed and when the student’s work is of passing quality. A student must remove the Incomplete within one calendar year from the date of its recording. Only upon
appeal to the School of HPER's director of Student Services is an extension of an Incomplete possible. If the student fails to remove the Incomplete within the time allowed, the Office of the Registrar will change the grade to an F. Students may not register in a course in which they have a grade of Incomplete. These regulations do not apply to research and reading courses in which completion of the course work is not necessarily required at the end of the semester. Incomplete work in these will be denoted by R (Deferred Grade). Once a student has graduated, nothing in these regulations shall prohibit the Incomplete from remaining on the student's record.

Withdrawals A grade of W is given automatically when withdrawals occur during a specific span of time after course-change days at the beginning of a regular semester or summer session. For the dates of this period consult the calendar of the campus where enrolled. Thereafter, a W will be given only if the student is passing on the date of withdrawal, and has an illness or obligation of employment. If the student is failing on the date of withdrawal, or stops attending class without officially withdrawing, a WF (Withdrawn with Failure) will be recorded on that date and will be treated as a failing grade. For further information on withdrawal dates and procedures refer to the Schedule of Classes.

NOTE: Withdrawing from credit hours may affect financial aid status, especially in relation to fellowships, scholarships, fee remissions, graduate work study, hourly work study, and loans. The details of specific awards should be reviewed prior to withdrawing to ascertain the effect of a reduction in total credit hours.

Academic Standing All graduate students are expected to maintain an overall grade point average of at least 3.0. Students whose averages fall below this level will be placed on probation. Master's degree students who have failed to compile a grade point average of at least 3.0 by the time the credit hour requirements for the degree have been completed will be denied further enrollment. Doctoral students who lack the required minimum average will not be permitted to take the qualifying examinations.

Grades below C will not count toward degree requirements for director's and doctoral degrees. Grades below C – will not count toward degree requirements for master's degrees. However, all grades earned in courses taken for graduate credit will be included in the calculation of the grade point average.

GPA Restrictions on Independent Study Students whose cumulative GPA is less than 3.0 will not be permitted to register for the following independent study research and readings courses, and internships and practicums:

- Physical Education: P640, P641, P642, P643, P740, P741
- Recreation and Park Administration: R640, R641, R740, R741

Pass-Fail Course work that is to be counted toward the total hours required for the degree may not be taken on a pass-fail basis. With the written consent of the student's adviser and the director of Academic Support, permission may be given to take other course work under this option.

Transfer of Credit The evaluation and approval of credit to be transferred is based upon the following:

1. Course work completed more than seven years prior to admission to a doctoral program in the School of Health, Physical Education, and Recreation is not applicable to the program unless it has been satisfactorily updated. (See Ph.D. requirements listed in the Graduate School Bulletin, "General Requirements for Advanced Degrees" section.)
2. A grade of 3.0 on a 4.0 scale must have been earned in order for the work to be transferable.
3. A maximum of 5 semester hours of graduate credit may be transferred from other institutions for application to a master's degree. Exception: Indiana University graduates may transfer up to 10 semester hours from other accredited graduate schools.
4. Credit for transfer work must be recommended in writing by the adviser and submitted for final approval to the director of Academic Support.
5. Any graduate course work to be taken at another institution for the purpose of transfer to an Indiana University program must be approved in advance.
6. Director's degree candidates who have not earned their master's degrees at Indiana University may transfer a maximum of 30 approved credit hours from other institutions.
7. Director's degree candidates who have earned a master's degree at Indiana University may transfer in a maximum of 10 credit hours beyond the master's degree.
8. Not more than 45 semester hours of credit from other approved graduate institutions may be accepted toward the hours of credit required for the Ph.D., Ed.D., or H.S.D. A maximum of only 30 hours of such course work may be accepted toward the hours required for the Ph.D. The acceptance and distribution of the transferred credit is determined by the student's advisory committee at the time of the formal course prescription meeting.
9. Grades of Pass or Satisfactory cannot be accepted unless there is official documentation from the transferring institution to verify that these grades are equivalent to a B or better on a graduate grading scale.
10. No credit can be transferred for a course which cannot be officially documented as carrying graduate credit.

Work at Regional Campuses A student wishing to enroll in degree-related course work at any other Indiana University campus must secure the appropriate forms from the School of HPER Records Office, HPER 115, prior to registration for such courses.

Graduate Credit for Undergraduates Candidates for the Bachelor of Science degree at Indiana University who are within five semester hours of completing requirements for that degree, when granted specific approval, may take certain graduate courses for graduate credit during the last undergraduate semester.

Residence Residence is defined as full-time pursuit of academic work. In meeting residence requirements students are expected to be on campus in daily contact with faculty and fellow graduate students during the specified time period. Twelve to 15 hours of course work are normally considered a full-time schedule. Nine semester hours constitute a full-time load for full-time graduate assistants, faculty assistants, and associate instructors.

A period of full-time residence is not required for students in master's or director's degree programs. However, master's students must take a minimum of 25-30 of the required 35-45 semester hours at Indiana University. Doctoral students must be enrolled for a minimum of two consecutive semesters of full-time course work on the Bloomington campus.

Employment It is recommended that persons who are employed full time should carry only 5 to 6 credit hours of graduate work per semester. Those employed half time should not take more than 9 hours. The maximum credit load for associate instructors, faculty assistants, and graduate assistants depends on the number of hours indicated in the assignment notice sent at the time of the appointment.

Teacher Certification Students wishing to teach in Indiana Public schools must meet the minimum state licensing requirements and obtain a standard license. More information is available from the certification office in the School of Education, Room 11, Bloomington, IN 47405, Telephone: 812-335-0191. Interested students should obtain the Teacher Education and Certification Handbook (Teach) Rules 46-47, Indiana Department of Public Instruction.

Eligibility for Graduation At least six months prior to the expected date of graduation, candidates must file an Application for Graduation in the School of HPER Records Office, HPER 115. Candidates for the Ph.D. degree must file a similar application with the Graduate School, Kirkwood Hall 111. Application blanks are available from those offices. Failure to file this application by the proper time may result in failure to graduate at the expected time. The responsibility for checking degree requirements rests with the student.

Graduation Doctoral students who wish to participate in commencement exercises must have completed the data-collection phase of the dissertation research by the deadline date for filing the graduation application. Arrangements for commencement regalia are to be made with the Indiana University Memorial Union Bookstore. Diplomas will be mailed to the permanent address on file at the Office of the Registrar. Allow approximately eight weeks following the date of graduation for the delivery of your diploma.

Specific Requirements

Graduate Certificate Program

A graduate Certificate of Health Studies is available through the Department of Applied Health Science for nonmajor students with an interest in health education and health
promotion. The certificate requires a minimum of 15 semester hours of graduate course work, including HPER H519 and 12 credits approved by adviser.

**Master's Degrees**

Degrees offered by the school include a Master of Science and a Master of Public Health. Students pursuing a Master of Science in one of the major fields (health and safety, physical education, or recreation and park administration) may select specific "options" for concentrated study within that major.

The Master of Public Health degree is designed to prepare individuals to serve as health educators or health promotion specialists in business, industry, higher education, voluntary agencies, government, and public and private sector health care settings.

Students wishing to earn a second master's or a dual degree should contact the director of Academic Support. Requirements vary for specific degree combinations. For more information refer to the *Graduate Student Handbook*, available in HPER 121.

**Admission** Individuals holding bachelor's degrees from accredited institutions, or who are within one semester of meeting degree requirements, are eligible to apply for admission to master's degree programs.

Unconditional admission may be granted applicants having an approved undergraduate degree from a four-year accredited institution and whose undergraduate academic average is not less than 2.8 (on a 4.0 scale). Applicants for admission to the Master of Science program within the Department of Physical Education and the Nutrition program within the Department of Applied Health Science must submit scores from the Graduate Record Examination even if the grade point average is 2.8 or better on a 4.0 scale. Consideration may also be given to applicants whose grade point averages fall below these minimums if strong Graduate Record Examination scores have been earned or if other evidence of adequate academic potential can be presented. (See "Steps for Admission to the Graduate Program."

Professional experience related to the applicant's area of study is highly desirable. Specific admission requirements regarding professional experience are determined by each department and based upon the particular program of study for which application is made.

Applicants with deficiencies in academic background will be notified of specific courses to be taken as prerequisites or corequisites to degree work. Such work cannot ordinarily be counted toward the hours required for completion of the degree.

**Thesis** If the thesis option is elected, the student's adviser will guide all phases of the thesis development. After the thesis problem has been identified, the student must plan a detailed outline of the problem. Both the problem and the outline must be submitted to the master's thesis committee for approval. The committee is also responsible for the evaluation of the completed thesis.

Students who have received approval to pursue the thesis option must consult *The Graduate Student Handbook: Doctoral Degree Programs*. The format and procedures for writing a master's thesis are identical to those for the doctoral dissertation, with the following exceptions: (1) extent of the study and (2) items submitted upon completion. For more information regarding submission of materials upon completion of the defense of the master's thesis contact the Office of Academic Affairs, HPER 121.

Prior to formal approval of the master's thesis proposal by the student's master's thesis committee, the proposed research must be presented at a preproposal forum. Information regarding and applications for the preproposal forum presentation are available in HPER 111. It is recommended that students consult with the School of HPER bibliographer in HPER 121 at the time of the preproposal forum.

**Program of Studies for the Master of Science Degree**

For the Master of Science degree, students are required to complete successfully a minimum total of 35 semester hours, at least 20 hours of which must be in the major field (health and

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1 For additional information see *General Information on Graduate Programs*, and the *HPER Graduate Student Handbook Series*. 
safety, physical education, or recreation). Note: (1) Athletic training requires the completion of 27 hours in the area of concentration. Elective hours must be selected from a pool of approved courses. (2) The Master of Science with emphasis in preventive/rehabilitative exercise requires 45 semester hours of approved credits. Elective hours must be selected from a pool of approved courses. (3) The Master of Public Health degree requires 40 semester hours of approved credit and 30 hours in the major.

For students choosing to write a thesis, a minimum of 20 semester hours of approved graduate course work in the major field is required in addition to the 5 credit hours awarded for completion of a satisfactory thesis. The remaining hours are elective selections.

In pursuing a master's degree, a student may select one of the options listed below. All candidates are required to complete HPER T590 or a specified substitution. HPER courses required to fill the requirements for an “option” will be counted toward the total 20 hours required in the major field. Even though a course from another discipline may be required in an “option,” it cannot be counted toward the total 20 hours required in the major field. Wherever a choice between two courses is permitted in meeting option requirements, the alternative not chosen may be used as an elective. All electives utilized in meeting degree requirements must be approved by the adviser.

A maximum of 6 semester hours in “independent study” courses (not including internships) may be utilized in meeting degree requirements unless special permission is obtained from the director of Academic Support. A student must have a 3.0 grade point average in order to be permitted to enroll in independent study courses.

**Applied Health Science Options**

Listed below are the courses required within each of the respective options:

**Health Promotion** H500, H519, H594, H642, C514 or C515, C591, C302 or H302 or S502, T590, 6 hours from H517, H518, H520, H521, H522, H525, H528, H555, H595, H617, C516, N530, F551, or F557.

**Human Development/Family Studies** H519, H599 (4-5 cr.), C591, T590, at least 3 hours from F542, F543, F545, or F548, at least 3 hours from F551, F553, F557 or F558, remaining hours from F345, F453, F458, F517, F559, F640, or F641.

**Nutrition Science** H519, C591, N530, N531, N536 or N641 or 3 hours elective, N539, Chem C483 or Chem C484 or Chem C383, T590, H599 (5 cr.) or C480 (2 cr.).

**Safety Management** H519, S501, S510, C512, C591, T590, 5 or 6 hours in HP 5-prefix courses.

**School and College Health Education** H500, H501 or H502 or H510, H519, H594 or C591, T590, 3 hours in HP 5-prefix courses, 3 hours in HP 5-prefix courses.

**Physical Education Options**

For each of the following emphasis areas, certain core courses or their equivalents are required. Depending on individual career goals, and in consultation with their advisers, students will select additional courses to complete the 35 required hours (45 in preventive/rehabilitative exercise) in one of the areas listed below (a minimum of 20 hours is required in physical education).

**Adapted Physical Education** for persons interested in working with handicapped individuals in both school and nonschool settings.

**Administration, Curriculum, Instruction** for persons interested in improving teaching at the elementary/secondary level, coaching at the secondary/college level; or in the administration of athletic and/or physical education programs or sport management.

**Applied Sport Science** for persons interested in coaching at the high school or college level and/or in the scientific aspects of sports and human performance.

**Athletic Training** for persons interested in certification by the National Athletic Trainer’s Association and athletic training careers in both school and nonschool settings. Admission to the Athletic Training program is by separate application. DEADLINE: March 1st.

**Exercise Science** for persons interested in the areas of biomechanics, exercise physiology/biochemistry, and motor learning/control.
Modern Dance for persons interested in professional preparation in dance as a performing art. Emphasizes the scientific aspects of dance, and the individual student may also emphasize choreography, teaching, management, or production.

Social Science of Sport for persons interested in the study of sport as a social/cultural phenomenon in areas such as history of sport, psychology of sport, or sociology of sport.

Preventive/Rehabilitative Exercise Programs for persons interested in professional preparation in exercise test technology, exercise prescription, exercise leadership and program administration for preventive and rehabilitative exercise programs in the community, corporate, and hospital settings. An understanding and appreciation of the corporate culture will be developed for individuals emphasizing corporate fitness. Individuals interested in hospital wellness and/or rehabilitation will understand and appreciate the medical management of cardiovascular, lung, and metabolic diseases. Individuals enrolled in this program will be trained to work in support roles with medical professionals who are trained in the diagnosis and treatment of medical problems. Completion of this degree is preparation for the American College of Sports Medicine (ACSM) certificates of (1) Exercise Leader; (2) Health Fitness Instructor; (3) Health Fitness Director; (4) Exercise Test Technologist; (5) Exercise Specialist; or (6) Program Director. (This is a 21 month minimum, 45 hour program.) Admission to this program is by separate application. Deadline: March 1st.

Sport Management for persons interested in careers in organized sport settings that require a background in and understanding of the foundations of sport as well as management and administrative competencies.

Recreation and Park Administration Options

Park/Recreation Administration T590, R500, R520, R521, R539, and T594. Remaining hours selected in consultation with adviser in accordance with career objectives in public agencies, private/commercial agencies, college unions, and general administration.

Recreational Sports Administration T590, R500, R520, R521, R570, R571, R572, and T594. Remaining 12 hours from R522, R530, P539, P630, P639, P647, and courses in Business, Education, or other courses approved by adviser.

Therapeutic Recreation T590, R500, R520, R521, R560, R561, R562, R563, and R642. Also select one course from: T591, T594, R515, R522, or R667. Remaining hours selected in consultation with adviser in accordance with career objectives in clinical and nonclinical settings.

Outdoor Recreation T590, R500, R520, R521, R540, and R542. Remaining hours selected in consultation with adviser in accordance with career objectives in outdoor recreation management, camping administration, and outdoor/environmental education.

Program of Studies for the Master of Public Health Degree
Each student is required to complete successfully a total of at least 40 semester hours for the degree. All electives utilized to complete the 40 hours for the degree must be approved by the adviser.

Master of Public Health Option

Public Health Education H500, H519, 18-24 credits from C501, C502, C510, C511, C591, C644, (3-9 cr.), 6 hours minimum from C512, C514, C515, C516, C640, H594 or H595, T590.

Director's Degree

The director's degree is an intermediate degree between the master's degree and the doctorate. It represents an opportunity for securing professional preparation beyond the master's degree for those who are interested in supervisory, administrative, or master teaching positions in the fields of health and safety, physical education, or recreation.

Candidates applying for admission should consider this level of graduate study to be a terminal degree; however, those displaying outstanding professional and academic

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1 For additional information see "General Requirements for Advanced Degrees," and the HPER Graduate Student Handbook: Director's Degree Programs.
qualifications may be encouraged, under certain circumstances, to enter the doctoral program upon completion of the director's degree.

Candidates for this degree will pursue a program of studies that places primary emphasis on such competencies as planning, organizing, and developing programs, managing program finances, dealing with staff and public relations, and/or specializing in specific teaching areas.

**Admission** To be considered for admission, applicants must possess a minimum undergraduate grade point average of 3.0 and a graduate grade point average of at least 3.2. Applicants must also submit three letters of recommendation, GRE scores, and evidence of a minimum of one year of professional experience. (See “Steps for Admission to the Graduate Program.”)

Applicants with deficiencies in academic background will be notified of specific courses to be taken as prerequisites or corequisites to degree work. Such work cannot ordinarily be counted toward the hours required for completion of the degree.

**Program of Studies** A total of 65 hours of approved graduate credit, including 30 hours beyond the master's degree, 35 hours in the major field, 9 hours outside of the major department, and 8 hours of thesis or 6-8 hours of internship are required for the degree. Students who have not earned their master's degree at Indiana University may transfer a maximum of 30 approved credit hours from other institutions. Students who have earned a master's degree at Indiana University may transfer in a maximum of 10 credit hours beyond the master's degree. A maximum of 10 semester hours earned in “independent study” courses may be counted for the director's degree. Specific programs will be planned in conjunction with the Advisory Committee.

**Committee** The adviser and one other graduate faculty member will compose a committee that will supervise the thesis or the internship experience and evaluate the written comprehensive examination. The adviser will serve as the chairperson of the thesis committee.

**Thesis** The candidate is encouraged to pursue a significant study in the major field. Appropriate scientific tools should be utilized and application should be made of relevant principles and procedures. The conclusions and recommendations should reflect the candidate's grasp of the study and reveal the complexities, depth, and application of the findings of the investigation. Eight credit hours are given for a satisfactory thesis. Students who have received approval to pursue the thesis option must consult The Graduate Student Handbook: Directors and Doctoral Degree Programs. The format and procedures for writing a director's thesis are identical to those for the doctoral dissertation, with the following exceptions: (1) extent of the study and (2) number of copies (two) submitted to the HPER Office of Academic Affairs. Prior to formal approval of the proposal by the student's directors committee, the student is required to present the proposed research at a preproposal forum. Information regarding and applications for the preproposal forum presentation are available in HPER 111. It is recommended that students consult with the School of HPER bibliographer in HPER 121 at the time of the preproposal presentation.

**Internship** The internship provides the candidate an opportunity to work under the direct supervision of an experienced professional, to gain practical insights into a major area of concentration, and to update the candidate in the use of new tools and techniques of the profession. Special care will be taken to avoid the duplication of previous professional experiences and emphasis will be placed on the development and exercise of new competencies. The candidate cannot be employed in a full-time position during the internship. In all probability, the candidate will be required to establish residence in the city of internship. At least 6 and no more than 8 credit hours are given for satisfactory completion of internship. Normally, only independent study courses can be taken during the period in which the internship is being conducted. Two copies of the intern experience report are to be submitted to the Office of Academic Affairs, HPER 121.

**Final Examination** Each candidate for the director's degree is required to pass a three-hour written comprehensive examination in the major area of study. The qualifying examinations are scheduled to be held twice during the academic year. If both members of the student's advisory committee are available, and if approval is obtained from the director of Academic Support, a student may apply to take the qualifying examination during the summer session. A student must file an “Application for an Examination” with the HPER Records Office, HPER 115, at least one month prior to the qualifying examination. In order to be eligible to
take the qualifying examinations, students must be within one course of completing their prescribed program of study and receive the recommendation of their adviser. Students who fail the qualifying examination are allowed to retake it only once.

**Doctoral Degrees**

The school is authorized to qualify candidates for the following doctoral degrees: Doctor of Health and Safety (H.S.D.); Doctor of Physical Education (P.E.D.); Doctor of Recreation (Re.D.); and Doctor of Philosophy (Ph.D.) in human performance (offered through the Graduate School but administered by the School of Health, Physical Education, and Recreation).

The H.S.D., P.E.D., and Re.D. are degrees designed primarily to prepare candidates for careers in college teaching and research or for positions of administrative leadership in schools or governmental or private agencies.

The Ph.D. in human performance is designed to prepare candidates primarily for careers in research devoted to the study of human physical activity and health-related behavior from a variety of perspectives. Currently available specialties include biomechanics, exercise physiology, health behavior, leisure behavior, and motor learning and control.

**General Requirements**

Procedures and policies for admission, appointment of advisory committees, and related matters follow the same pattern for all doctoral degrees. Special procedures and requirements unique to the P.E.D., H.S.D., Re.D., or Ph.D. programs are presented in the section “Doctoral Degree Special Requirements.” (Also see “General Information on Graduate Programs.”) Students seeking the Ph.D. must be familiar with and meet all the requirements stipulated in the Indiana University Graduate School Bulletin. Bulletins are available in the Graduate School, Kirkwood Hall, Room 111. (See “General Requirements for Advanced Degrees” and the section titled “Health, Physical Education, and Recreation.”)

**Admission to Doctoral Study**

In addition to an application, transcripts of all previous college work, three letters of recommendation, application fee, and GRE scores (aptitude portion) must be submitted. (See “Steps for Admission to the Graduate Program.”)

**Prerequisites**

Although most applicants for the doctorate are generally found to have backgrounds in the area of specialty, the possession of degrees in these fields is not a prerequisite to admission. Otherwise qualified applicants, however, who have deficiencies in academic or professional background may be required to take specific courses or acquire specific experience as prerequisites to degree work. Credit hours earned in courses prescribed for this purpose cannot ordinarily be included in the 90 hour total required for the degree.

**Denial of Admission to Doctoral Study**

Applicants whose qualifications would ordinarily qualify them for admission but who are denied because no places are available in the desired program may request to have their applications reconsidered for admission at some future date.

Other applicants who are denied admission may request reconsideration if significant new evidence can be presented concerning their ability to pursue doctoral work successfully. If such evidence includes courses taken at Indiana University (or other institutions), credit for such course work cannot ordinarily be counted toward degree requirements if the applicant is subsequently admitted.

**Doctoral Advisory Committee**

An appropriate member of the graduate faculty will be appointed by the director of Academic Support to chair the student’s doctoral advisory committee. After some familiarity has been established with the courses and faculty, the student will nominate two or three additional faculty members to represent the major and minor(s) areas on the advisory committee. In any case, the committee must include at least one member from outside the major department. Final confirmation of committee representatives is the responsibility of the director of Academic Support.

The doctoral advisory committee will work with the student to prepare a “prescription of courses” for the program of studies. The prescribed course of studies must be approved by

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1 For additional information see “General Information on Graduate Programs,” and the [HPER Graduate Student Handbook: Doctoral Degree Programs](#).
the advisory committee and filed in the HPER Records Office no later than the eighth week of the second semester of full-time enrollment. Deficiencies in academic background will be diagnosed by the committee and remedial course work prescribed. In general, such remedial work cannot be counted as a part of the hours required for the degree. The advisory committee will be responsible for prescribing course work and writing and evaluating qualifying examinations. Requirements for completion of the degree that are not stated in the catalog must be specified in writing as part of the formal course prescription.

Admission to Candidacy for the Doctoral Degree Admission to candidacy for a doctoral degree requires the student to (a) complete successfully one of the research skill options, and (b) pass the qualifying examinations.

Qualifying Examinations Each student is required to pass a comprehensive qualifying examination over the fundamentals of the fields in which specialization has been elected. The examination will not be limited to the subject matter of the courses taken. Normally, the student must be registered during the semester in which the examination is expected to be taken, and must file an examination application with the Records Office of the School of Health, Physical Education, and Recreation at least one month prior to the scheduled examination period. Doctoral qualifying examinations are scheduled during the first and second semesters. If all members of the student's advisory committee are available, and if approval is obtained from the director of Academic Support, a student may apply to take the qualifying examinations during the summer session.

The oral portion of the qualifying examination is ordinarily scheduled to be held within a month of the written portion of the examination; however, it is not to be scheduled the week of final examinations or during recess periods.

Before taking the qualifying examinations in the major and minor areas, the student must fulfill one of the research skill options listed under Research Skill Requirement. The qualifying examinations may be taken when students are within one course of completing their prescribed program of studies. The satisfactory passing of the qualifying examinations, as certified by the doctoral advisory committee, admits the student to candidacy for the degree, providing all other requirements for admission to candidacy have been met. Students who fail the qualifying examination are allowed to retake it only once. The director of Academic Support shall notify the student and the doctoral committee of admission to candidacy, after which the student will generally be registered for dissertation research hours only.

According to the Graduate School policy for Ph.D. students, the qualifying examination must be passed at least eight months before the date of awarding the degree.

Dissertation Research Committee Upon the successful completion of the qualifying examination the student is admitted to candidacy for the doctoral degree. At this point the responsibilities of the advisory committee have been discharged and that committee is technically disbanded. A new committee—the research committee—must be appointed for the purpose of guiding the candidate's dissertation research. In most instances the membership of the research committee is very similar, if not identical, to that of the advisory committee. However, the actual makeup of the committee will be determined by the nature of the research to be pursued and the interests and qualifications of faculty. Membership on the research committee requires formal nomination and appointment procedures. A minimum of three members is required for the H.S.D., P.E.D., and Re.D. The Ph.D. committee must be composed of at least four members. All dissertation research committees must include at least one member from outside the major department. Confirmation of committee representatives is the responsibility of the director of Academic Support.

For a Ph.D. candidate, the membership of the research committee, plus a two-page synopsis of the dissertation proposal, must be submitted to the Graduate School at least six months before the defense of the dissertation.

It is expected that all doctoral candidates will conduct their dissertation research under the direct supervision of a faculty member in the major department. Under certain circumstances it may be desirable to deviate from this policy. Within very strict limitations, and only with special permission, it may be possible to arrange for a specially qualified faculty member of another department to supervise the dissertation as either director of research or as co-chairperson of the research committee. In every case, however, chairpersons of the dissertation research committee must reside within the major department.
Enrollment after the Qualifying Examination  After passing the qualifying examinations, a doctoral candidate must enroll each semester for dissertation or research credit at the regular fee until graduation. If the required number of dissertation credits is reached before the thesis is completed, the candidate must continue to enroll for dissertation or research credits or G901 (a 6 credit hour course with a flat $100 fee). Candidates must be enrolled during the semester (including summer) during which the degree is awarded.

In Absentia Enrollment  Doctoral candidates who wish to enroll in absentia must notify the Records Office of the School of HPER concerning the specific course(s) for which they wish to register. Students will be billed by the bursar for the appropriate tuition and fees.

Dissertation  Each candidate must present a satisfactory dissertation in partial fulfillment of the requirements for the doctoral degree. The dissertation permits the candidate to demonstrate creative ability in identifying and treating a significant problem; to collect, analyze, and interpret meaningful data by appropriate research methods; to make valid generalizations upon the findings; and to present the study in acceptable written form. The dissertation should be designed and carried out in such a fashion as to make a positive contribution to the knowledge base of the profession. Completion of a dissertation normally requires at least one year of concentrated effort. The proposed dissertation problem is submitted to the chairperson of the candidate’s doctoral committee, together with an outline using an approved prospectus format and including a description of research procedures to be used.

Before the proposal can be submitted to the candidate’s research committee for final approval at a formal proposal meeting, presentation of the proposal must be made at a public preproposal forum. In planning for this presentation candidates must follow the procedures stipulated by the director of Academic Support. (Detailed information is available in HPER Rm. 111.) It is recommended that students consult with the School of HPER bibliographer in HPER 121 concerning matters of dissertation format and style at this time.

NOTE: Every proposal must contain documentation that clearance has been obtained for the use of human subjects. No dissertation will be accepted for which such clearance has not been obtained. Forms and procedures for this purpose are available from the HPER Office of Research and Academic Support, HPER 115A.

It is suggested that at the time of the formal proposal meeting publication expectations of the research (including such factors as publication time lines, coauthorship, ordering of names in publication) be formulated and submitted to the candidate’s file. Candidates should be aware that some faculty members may require this form. Guidelines and forms for this agreement are available in the HPER Records Office, HPER 115.

After approval by the committee the research is conducted under the supervision of the dissertation director. The acceptability of the completed dissertation is first passed upon by the chairperson and then by the doctoral committee at a formal meeting.

The dissertation must be completed within seven years after the successful completion of the qualifying examinations. After the completed dissertation has been approved by the chairperson, it will be typed in accordance with established regulations. At least four weeks before the final examination, a copy of the completed dissertation must be presented to each committee member. Each copy of the dissertation must be accompanied by an acceptance page, a 350-word abstract, and a vita sheet. An additional 350-word abstract, an additional title page, and a one-page announcement of the dissertation defense must also be submitted to the chairperson.

Concluding Activities  After the final examination in defense of the dissertation has been passed and the dissertation has been approved, P.E.D., Re.D., and H.S.D. candidates must submit the following to the HPER Office of Academic Affairs, HPER 121.
1. Receipt of microfilm fee (and copyright fee if desired) paid by the student to the bursar
2. One unbound and two bound copies of the dissertation on 100% rag paper. Each of these copies must include a signed acceptance page and a signed 350-word abstract.
3. Three photocopies of the signed 350-word abstract (in addition to those included in each copy of the dissertation)
4. One unsigned 250-word abstract for publication in Completed Research in HPER
5. An additional photocopy of the title page
6. Signed University of Oregon microfilm contract
7. Signed UMI “Doctoral Dissertation Agreement”
8. Completed “Survey of Earned Doctorate”

NOTE: Ph.D. candidates must submit only the following to the School of HPER, Office of
Academic Affairs:
1. A signed University of Oregon microfilm contract
2. One unsigned 250-word abstract for publication in Completed Research in HPER

Ph.D. candidates must submit the following directly to the Graduate School, Kirkwood Hall,
Rm. 111:
1. One unbound and two bound copies of the dissertation on 100% rag paper
2. One signed and one unsigned 300-word abstract (in addition to those included in each
copy of the dissertation)
4. Receipt of microfilm fee (and copyright fee, if desired) paid by the student to the bursar
5. An additional photocopy of the title page
6. Completed “Survey of Earned Doctorate”

Unless otherwise specified, all doctoral students should provide the dissertation committee
chairperson with a bound copy of the dissertation.

Publication of the Dissertation  At the time candidates are recommended for the degree,
they must obtain a UMI “Doctoral Dissertation Agreement” for microfilming the dissertation.
Following are the conditions for publication:

The candidate will submit a 350-word abstract of the dissertation that has been approved by
the committee. This abstract will appear in Dissertation Abstracts International, published by
University Microfilms, Inc., Ann Arbor, Michigan.

The unbound copy of the candidate’s dissertation will be loaned to University Microfilms
International for complete microfilming. The resulting film copies are available for purchase by
all who request them. Copyright may be secured if desired. If you indicate on the UMI
“Doctoral Dissertation Agreement” that you wish to have your dissertation copyrighted, UMI
will act as an agent with the Library of Congress Copyright Office. This includes the
preparation of the application and submission of the required deposit copy of your work,
along with the application fee. You will receive the certificate of copyright registration from
the Copyright Office approximately four months after your abstract appears in Dissertation
Abstracts International.

The unbound copy will be returned by University Microfilms International and forwarded to
the University’s Main Library, where it will be bound. The fee for publishing the abstract and
for the microfilming is the financial responsibility of the candidate, but the processing
procedure will be handled through the HPER Office of Academic Affairs.

Candidates for the Ph.D. must follow guidelines and procedures for completing the
dissertation as outlined in the Graduate School Bulletin.

Final Examination  The final oral examination in defense of the dissertation is a public
meeting conducted by the candidate’s committee. Application for the final examination must
be filed at least four weeks prior to the scheduled date of the exam. Formal announcement of
the examination, with the approval of the committee chair, will be circulated to faculty and
students of the School of HPER. In the case of the Ph.D. candidate, the announcement will
also be forwarded to the Graduate School for distribution to all University graduate faculty. It
is the candidate’s responsibility to secure the application form from the HPER Records Office,
HPER 115, and ensure that it is filed at the appropriate time.

A minimum of four working weeks must be allowed for the committee to examine the
dissertation prior to its final defense.

H.S.D., P.E.D., and Re.D. Degrees
In addition to a major field of study, candidates must have one, and may have two, minors,
which may be within the school or in cognate fields outside of the school.

Program of Studies  The major will consist of 30 semester hours in a given field. Normally, a
minor will consist of not fewer than 15 semester hours in an area approved by the candidate’s
advisory committee. Minors within the school may be selected in (1) alcohol and drug use, (2)
health promotion, (3) human development/family studies, (4) human sexuality education,
(5) measurement and evaluation, (6) nutrition science, (7) physical education, (8) public health education, (9) recreation, (10) safety management, or (11) school and college health education. These minors may also be taken by doctoral students outside of HPER. Minors taken outside the school must include a minimum of 15 semester hours of course work unless otherwise specified by the minor department.

Requirements for the Department of Applied Health Science doctorate minor options are:

**Alcohol and Drug Use** H519, H518, H528, C516 or F551, H512 or 3 hours in consultation with adviser.
**Health Promotion** H519, C514 or C515, 9 hours in consultation with adviser.
**Human Development/Family Studies** H519, F543, F551, F557, F558.
**Human Sexuality Education** H519, F453, F553 or H519, H540, H555.
**Nutrition Science** H519, N530, N539, N619, N640.
**Public Health Education** H500, H519, C501, C502, C510.
**Safety Management** H519, 12 hours in consultation with adviser.

**School and College Health Education** H500, H519, H501, H502, H510.

With certain exceptions in the Department of Applied Health Science, students may not pursue a minor in the same department in which the major is taken.

Minors taken outside the school must include a minimum of 15 semester hours of course work unless otherwise specified by the minor department.

A minimum of 15 graduate credits (either minor courses or electives) must be taken outside of the major department. A minimum of 15 semester hours of doctoral dissertation credit is required.

The distribution of required hours is as follows:
Major Area, 30 hours minimum
Minor Area, 15 hours (or as stipulated by minor department)
Second Minor or Supporting Electives, 15 hours
Dissertation, 15 hours
Electives, 15 hours
Total, 90 hours (minimum)

All candidates for H.S.D., P.E.D., and Re.D. degrees must take HPER T590, T591, and T592 or their equivalents. Neither these courses nor those required for the language/research tool options will count toward the 30 hour major but may count toward total hours.

**Research Skill Requirement** Students may select either of the following options as a means of fulfilling the research skill requirement. This decision is made at the time of the course prescription meeting. Students may select either of the following options as a means of fulfilling the research skill requirement. Graduate courses taken to fulfill option requirements generally cannot be counted toward total hours for the degree. Exception: HPER T591, T592 may count toward total hours, but may not be included in the major or minor. An average of B (3.0) or better must be earned in courses utilized in meeting the language and research skill options. (See special requirements for the Ph.D.)

**Option I** HPER T591, T592, and T693 or T691. (When T693 or T691 is used in this manner, it cannot be counted in the hours for the major, minor, or total hours).

**Option II** HPER T591, T592, and one research skill from the following:
A. Language: Demonstrate reading proficiency in one foreign language, selected from French, German, or Russian, by passing an examination given by the language departments, or by taking two courses in one language designated for graduate students and earning a grade of B or better in each course (8 hours). Foreign students will not be permitted to use their native languages in meeting this requirement. Such students may, however, elect to present English proficiency as the foreign language in which a TOEFL test score of 550 or better is required.
B. Computer Science: C.Sc. C307 and C335. (Note: Prerequisite of C201 is necessary.)
C. Other appropriate language/research skills which are endorsed by the advisory committee and approved by the director of Academic Support.

**Ph.D. in Human Performance**

This degree is offered by the School of Health, Physical Education, and Recreation in conjunction with the Graduate School of the College of Arts and Sciences. Study in the area of

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1 Equivalent courses may be acceptable but must receive prior approval from the director of Academic Support.
human performance is designed to provide the student with a comprehensive understanding of the field of interest and an intimate knowledge of research methodology applicable to the area of human performance.

Students seeking the Ph.D. must be familiar with and meet all requirements stipulated in the Indiana University Graduate School Bulletin. These bulletins are available in the Graduate School, Kirkwood Hall, Room 111. (See “General Requirements for Advanced Degrees” and the section titled “Health, Physical Education, and Recreation”.)

Prerequisites Although most applicants for the Ph.D. are generally found to have backgrounds in appropriately related fields, the possession of degrees in these fields is not a prerequisite to admission. It should be recognized, however, that applicants with deficiencies in academic backgrounds will be required to take specific courses as prerequisites (or corequisites) to degree work. Such work cannot ordinarily be counted toward the hours required for completion of the degree.

Program of Studies for the Ph.D. in Human Performance Requirements totaling a minimum of 90 hours beyond the baccalaureate degree include 30 hours in the area of human performance, at least 15 hours in a cognate field (minor) outside the School of Health, Physical Education, and Recreation, 15 hours distributed among supportive electives, a substantial amount of work in statistics and research methodology, and 20-30 hours for the dissertation.

Elective or minor course work must clearly support the development of research competency in the major field. Frequent involvement in research projects (with or without academic credit) is an essential element of the program. Deficiencies in course work must be made up during the first year. The major will consist of appropriate course work prescribed by the doctoral advisory committee.

The pattern of distribution of the total number of minor hours is flexible; however, provision must be made for at least one minor (normally 12-15 hours) in a department outside the School of Health, Physical Education, and Recreation.

In general, distribution is as follows:
Major Area, 30 hours minimum
Minor, 15 hours
Supporting electives or second minor, 15 hours minimum
Dissertation, 20-30 hours
Electives, 0-10 hours
Research Skills and Languages, not counted in total hours
Total, 90 hours

All Ph.D. students must present T590 and T591, or their equivalents, as prerequisites to the major work. Credits earned in these courses will not count toward the major or minor, but may be counted toward the total 90 hours required for the degree.

Skill Requirement A candidate for the Ph.D. degree in Human Performance must select one of the following research skill options. A grade of B (3.0) or better must be obtained in each course used in meeting this requirement.

Option 1. Demonstrate reading proficiency in two languages or proficiency in depth (test or two courses) of one foreign language selected from French, German, or Russian. Permission may be sought to substitute another language for this requirement. International students will not be permitted to use their native languages in meeting this requirement. Such students may, however, elect to present English proficiency as the foreign language in which a TOEFL test score of 550 or better is required. Verification in English proficiency must be obtained from the Indiana University Center for English Language Training, Kirkwood Hall, Room 401.

A special form requesting this action must be obtained from the HPER Records Office.

Option 2. Reading proficiency in the selected foreign language and at least 3 hours from research skill courses described below:

a. Electronic Techniques: Physics P302, P421, P431
b. Mathematics: Math M360, M366, M463, M467, M303, M311, M371, M313
c. Advanced statistics courses (6 credit hours)

1 Other courses may be approved to meet these requirements if adequate justification can be provided.
d. Computer Science: C.Sci. C343, C355 (Note: Prerequisite of C307 or C335 is necessary.)
e. Other appropriate language/research skills which have been endorsed by the doctoral advisory committee and approved by the director of Academic Support.

Option. III. Appropriate research skill courses such as those described below for a total of at least 9 hours credit.

a. Electronic Techniques: Physics P302, P421, P431
b. Mathematics: M360, M463, M467, M303, M311, M371, M313
c. Advanced statistics courses (6 credit hours)
d. Computer Science: C.Sci. C335, C343 (Note: Prerequisite of C307 or C335 is necessary)
e. Engineering (Mandatory for Biomechanics): one course in each of Statics, Dynamics, and Mechanics of Materials. These courses should have the content of standard theoretical courses in engineering. Acceptance of equivalent courses requires support of the student's adviser and approval of the director of Academic Support.
Courses in the School of Health, Physical Education, and Recreation, 1988-90

The courses below represent the total offerings of the School of Health, Physical Education, and Recreation. Not all courses are offered every semester. The number of credit hours given for a course is indicated in parentheses following the course title. The abbreviation "P" refers to the course prerequisites. Courses numbered 500 and above are for graduate students only.

### Applied Health Science

**Human Development/Family Studies**

**F150 Introduction to Life Span Human Development** (3 cr.) How individuals interact with family units and society and how family and society influence the development of the individual across the life span.

**F248 Human Development I—Infancy and Preschool** (3 cr.) P: F150 or equivalent. Examination of prenatal, infant, preschool development, physical, cognitive, and social-emotional characteristics of normal development.

**F249 Human Development II—Childhood and Adolescence** (3 cr.) P: F150 or equivalent. Development into adolescence with emphasis on transition from dependence to self-dependence. Physical, emotional, cognitive, and psychological characteristics of growth.

**F255 Human Sexuality** (3 cr.) Survey of the dynamics of human sexuality; identification and examination of basic issues in human sexuality as relating to the larger society.

**F258 Marriage and Family Interaction** (3 cr.) Basic personal and social factors influencing the achievement of satisfying marriage and family experiences.

**F317 Topical Seminar in Human Development/Family Studies** (1-3 cr.) The Topical Seminars will relate to current issues in the field of Human Development/Family Studies. Possible topics for this seminar might be: child abuse; relationship violence; alternative family forms; teen-age pregnancy; commuter marriage; dual career marriage; family abuse.

**F345 Parent-Child Relations** (3 cr.) P: F248 or equivalent. Dynamics of parent-child interaction; survey of techniques, methods, and organization of parent education programs.

**F352 Human Development III—Aging and the Family** (3 cr.) P: F150. Final stage of human development in the family; family development; interational changes; social, emotional, intellectual, biological changes, associated behavior.

**F440 Research in Human Development/Family Studies** (1-3 cr.) Undergraduate research done in the field of human development/family studies under the direction of a faculty member in the department.

**F441 Readings in Human Development/Family Studies** (1-3 cr.) Planned readings in human development/family studies to be conducted under the direction of a member of the faculty. Enrollment is limited to seniors or advanced juniors who are majors in the department. Readings proposal must be approved in advance.

**F442 Internship in Human Development** (3-6 cr.) P: F248 or F352, F249, and consent of department. Observation and participation in community programs serving children, other individuals and families. Students will be assigned to an experience appropriate to their professional interest. Application due by 10th week of previous semester.

**F444 Field Experience in Human Development/Family Studies** (1-10 cr.) Field experience through on-the-job and related opportunities in human development/family studies. Regular critique will be held with supervisors and written progress reports are required.

**F50 Current Issues in Human Development/Family Studies** (3 cr.) P: F150, F258. An in-depth investigation of a contemporary topic in the field of human development/family studies.

**F52 Independent Study in Human Development/Family Studies** (3 cr.) P: F150, F258. Consent of department. An in-depth investigation of some area within human development/family studies that would include a limited project related to community services.

**F53 Family Life Education** (4 cr.) P: F248, F258 or equivalents. Consent of department. Scope of family life education, methods, source materials, current issues; for Family Life Education minors includes practicum in agencies, schools, or other community groups.
F458 Family and Consumer Law (3 cr.) Study of the legal rights, responsibilities, and resources of family members as they function within the economy and society.

F517 Workshop in Human Development/Family Studies (1-3 cr.) Interesting topics of relevance to individuals in human development/family studies and related disciplines are conducted in workshop fashion under the direction of faculty members. Emphasis is placed upon practical application, group involvement, and the use of resource personnel. Specific topics vary and may be repeated for credit.

F542 Issues in Human Development and Family (3 cr.) P: Consent of department. Interrelatedness of different aspects of growth and development; review, discussion, and evaluation of current trends and issues in human development and family studies. Topic may vary.

F543 Theories of Child Development (3 cr.) P: F248 or equivalent. Survey of major theories of child development with emphasis on how these theories have influenced current attitudes toward children's behavior and development.

F545 Parent Education (3 cr.) P: F248 or equivalent. Survey of theory, methods, and techniques of parent education: practical experiences in observation and participation in parent education programs.

F548 Seminar in Human Development (3 cr.) P: Consent of instructor. Analysis and interpretation of various aspects of human development. Theoretical and/or empirical formulations stressed with emphasis on critical discussion and evaluation. May be repeated twice for credit. Topic may vary.

F551 Introduction to Marriage Counseling (3 cr.) P: Consent of instructor. Introduction to basic theories of marriage counseling; survey of techniques and methods of marriage counseling.

F553 Teaching Sex Education (3 cr.) P: F255 and consent of instructor. Philosophy, content, methods, resources, and evaluation that relate specifically to the teaching of sex education.

F557 Crises in Family Development (3 cr.) P: F258 or F150 or consent of instructor. Survey of the literature pertaining to families in crises with emphasis on theoretical and practical approaches to the treatment and resolution of crises.

F558 Seminar in Family Studies (3 cr.) P: F258 or F150 or consent of instructor. Analysis and interpretation of various aspects of family study; emphasis on critical discussion and evaluation. May be repeated twice for credit.

F559 Special Problems: Human Development/Family (1-3 cr.) P: Consent of department. Independent work on problems of special interest to student. May be repeated for a maximum of 6 credits.

F640 Research in Human Development/Family Studies (1-5 cr.) P: Graduate GPA of at least 3.0. Research projects are conducted under the direction of a member of the graduate teaching faculty. Enrollment is limited to advanced graduate students, and project proposals must be approved in advance. May be repeated with permission.

F641 Readings in Human Development/Family Studies (1-5 cr.) P: Graduate GPA of at least 3.0. Planned readings in specialized areas of professional interest are conducted under the direction of a member of the graduate teaching faculty. Enrollment is limited to advanced graduate students, and reading proposal must be approved in advance. May be repeated with permission.

Nutrition/Dietetics

N120 Introductory Foods and Meal Management (3 cr.) Chemical and physical properties of food that influence food selection, handling, preservation, and preparation; menu planning, meal management. Laboratory weekly.

N220 Basic Nutrition (3 cr.) Introduction to nutrients, their uses and food sources. Application of principles to diets for general health is covered. A review of popular topics in nutrition is emphasized. Not for students in dietetics or nutrition science.

N231 Human Nutrition (3 cr.) P: C100 or C101 or equivalents and L100. Basic principles of nutrition, with emphasis on identification, functions, and food sources of nutrients required by individuals for optimum health and development. Rationale for dietary modifications in conditions related to the life cycle and to disease. Credit for only one of N220, N231. 1 Sem., II Sem.

N317 Topical Seminar in Nutrition/Dietetics (1-3 cr.) The Topical Seminars will relate to current issues in the field of nutrition/dietetics. Possible topics for this seminar might be: weight reduction and fad diets; food additives; diet and human performance (diet for the athlete); vegetarianism; child nutrition; diet for senior citizens; diet and disease relationships.

N320 Experimental Study of Foods (3 cr.) P: N120, C100 or C101 or equivalents. R: A course in organic chemistry. Advanced study in the chemical and physical properties of
food as related to use, quality and preparation. Application of principles and experimental procedures. One hour lecture, four hours laboratory weekly.

N336 **Community Nutrition (3 cr.)** P: N231 or equivalent. Functions and effectiveness of various community programs designed to improve the diets of people. Review of literature of dietary studies and nutrition education. Emphasis on topics of current interest.

N421 **Quantity Food Purchasing and Production (4 cr.)** P: N231, N320, BUS Z302. Principles of menu planning, equipment selection, purchasing, food production, and cost control in institutions. Two hours lecture, six hours laboratory weekly.

N422 **Food Service Systems (2 cr.)** P: N421, BUS Z302. Organization, personnel management and administration in food service systems. Food service equipment needs.

N430 **Advanced Human Nutrition (4 cr.)** P: N356, L267, C341, C343 or consent of department. Functions of nutrients in human metabolism; evaluation and fulfillment of nutritional needs; current literature.

N431 **Nutrition in Disease—Diet Therapy (3 cr.)** P: N430. Dietary modifications for therapy in metabolic and pathological disorders with allowance for cultural patterns.

N432 **Nutritional Assessment and Analysis (3 cr.)** P: N430 or consent of department. R: N431. Experience in following a prescribed diet; biological sample collection; laboratory analytical procedures; data interpretation.

N440 **Research in Nutrition/Dietetics (1-3 cr.)** Undergraduate research done in the field of nutrition/dietetics under the direction of a faculty member in the department.

N441 **Readings in Nutrition/Dietetics (1-3 cr.)** Planned readings in nutrition/dietetics to be conducted under the direction of a member of the faculty. Enrollment is limited to seniors or advanced juniors who are majors in the department. Readings proposal must be approved in advance.

N444 **Field Experience in Nutrition/Dietetics (1-10 cr.)** Field experience through on-the-job and related opportunities in nutrition/dietetics. Regular critique will be held with supervisors and written progress reports are required.

N530 **Advanced Nutrition (4 cr.)** Functions of nutrients in human metabolism, evaluation and fulfillment of nutritional needs, and current literature are reviewed.

N531 **Nutrition in Disease—Diet Therapy (3 cr.)** Emphasis is placed on therapeutic dietary modifications useful in different disease states. The student develops special techniques in lab data analysis, diet instruction, and in performing the role of the clinical dietitian.

N532 **Nutritional Assessment and Analysis (3 cr.)** This course is designed to provide students with experience in following a prescribed diet, biological sample collection, laboratory analytical procedures, and data interpretation.

N536 **Community Nutrition (3 cr.)** Historical and contemporary national nutritional surveys reflecting the nutritional programs. Community diagnosis, program planning, goal setting, formulating objectives, describing targets, evaluation designs, and educational methods are discussed. Student prepares and delivers one nutrition program to the community.

N539 **Special Problems: Nutrition and Food Science (3 cr.)** P: Consent of department. Independent work on problems of special interest. Topic may vary.

N617 **Seminar in Nutrition Science (1-3 cr.)** Contemporary topics in the area of nutrition science are studied under the direction of faculty members with specialized areas of expertise. Specific topics vary and may be repeated for credit.

N640 **Research in Nutrition Science (1-5 cr.)** P: Graduate GPA of at least 3.0. Research projects are conducted under the direction of a member of the graduate teaching faculty. Enrollment is limited to advanced graduate students, and project proposals must be approved in advance. May be repeated with permission.

N641 **Readings in Nutrition Science (1-5 cr.)** P: Graduate GPA of at least 3.0. Planned readings in specialized areas of professional interest are conducted under the direction of a member of the graduate teaching faculty. Enrollment is limited to advanced graduate students, and reading proposals must be approved in advance. May be repeated with permission.

**Public Health**

C317 **Topical Seminar in Public Health Education (1-3 cr.)** The Topical Seminars will relate to current issues in the field of public health education. Possible topics for this seminar might be: aging, environmental health, teenage health problems, health problems of ethnic groups, public health administration, and group dynamics.

C366 **Health Problems in the Community (3 cr.)** Human ecology as it relates to the interaction of social and physical phenomena
in the solution of community health problems. Considers the promotion of community health, programs of prevention, environmental health, and health services.

C403 Techniques of Public Health Education (3 cr.) The place of the teacher in community health education programs is discussed. This course considers the need of program, various media and methods that may be employed, and place of existing agencies in the program.

C440 Research in Public Health Education (1-3 cr.) Undergraduate research done in the field of public health education under the direction of a faculty member in the department.

C441 Readings in Public Health Education (1-3 cr.) Planned readings in public health education to be conducted under the direction of a member of the faculty. Enrollment is limited to seniors or advanced juniors who are majors in the department. Readings proposal must be approved in advance.

C444 Field Experience in Public Health Education (1-10 cr.) Field experience through on-the-job and related opportunities in public health. Students will be assigned to official, primary care, voluntary, and related health agencies offering opportunities for professional development, practical application of skills, and participatory experience for the health educator. Regular critique will be held with supervisors and written progress reports are required.

C501 Program Planning in Public Health Education (3 cr.) Principles of program planning in public health education are analyzed, including needs assessment, health hazard appraisal, community analysis and organization, selection of program topics, coordination of health education and health promotion activities in school and community settings, audience analysis, task analysis, and the role of evaluation.

C502 Advanced Techniques of Public Health Education (3 cr.) Special techniques for the effective delivery of public health education programs are developed. Course content includes the selection, development, and utilization of instructional methods and materials; group dynamics and communication skills; mass media campaigns; and program evaluation.

C510 Organization and Administration of Public Health Programs (3 cr.) The organizational structure and function of public health programs at the local, state, and federal levels are described in relation to the current emphases on chronic disease control and health promotion. Discussion includes consideration of official agencies, voluntary agencies, and health-related activities in the private sector.

C511 Epidemiology (3 cr.) A non-medical introduction to the epidemiological methods and procedures utilized in the study of the origin, distribution, and control of disease is presented. Selected chronic and communicable diseases of special concern in public health are identified, and the role of education in disease control is emphasized.

C512 Environmental Health Science (3 cr.) Components of environmental health and public sanitation programs are introduced. Topics include water supply, air and stream pollution, sewage treatment and waste disposal, insect and rodent eradication, energy alternatives, food and drug quality assurance, occupational health, radiological health, and communicable disease control.

C514 Health Education in Occupational Settings (3 cr.) Approaches to developing comprehensive employee health education and health promotion programs in occupational settings are considered. Course content includes health risk appraisal; program design, implementation, and evaluation; employee health networks; and special instructional methods appropriate for the workplace. Model employee health education programs from business and industry are reviewed.

C515 Health Education in Clinical Settings (3 cr.) An extensive study of health education programs in clinical settings is presented, including historical background, recent legislation, health care delivery systems, roles and responsibilities of the educator, patient representation, program planning, and evaluation strategies. Instructional techniques and materials are examined, and model programs are reviewed. Field visitations may be required.

C516 Introduction to Health Counseling (3 cr.) Recent developments in mental health are evaluated in relation to their implications for health education. The role of health educators in supportive listening, crisis intervention, and appropriate counseling and referral strategies is reviewed. Special problem areas include obesity, aging and death, substance abuse, stress and depression, family planning, and diseases.

C517 Workshop in Public Health (1-3 cr.) Interesting topics of relevance to individuals in public health are conducted in workshop fashion under the direction of faculty members. Emphasis is placed upon practical application, group involvement, and the use...
of resource personnel. Specific topics vary and may be repeated for credit.

C391 Public Health Statistics (3 cr.) An applied approach to the collection, organization, and interpretation of data pertinent to public health and vital statistics is outlined. The application of bio-statistical methods, population data, morbidity and mortality rates, ratios, and life tables to public health is explained.

C617 Seminar in Public Health (1-3 cr.) Contemporary topics in the area of public health are studied under the direction of faculty members with specialized areas of expertise. Specific topics vary and may be repeated for credit.

C640 Research in Public Health (1-5 cr.) P: Graduate GPA of at least 3.0. Research projects are conducted under the direction of a member of the graduate teaching faculty. Enrollment is limited to advanced graduate students, and project proposals must be approved in advance.

C641 Readings in Public Health (1-5 cr.) P: Graduate GPA of at least 3.0. Planned readings in specialized areas of professional interest are conducted under the direction of a member of the graduate teaching faculty. Enrollment is limited to advanced graduate students, and reading proposals must be approved in advance.

C644 Field Experience in Public Health (1-10 cr.) P: Graduate GPA of at least 3.0. Competencies in public health are developed through professional experiences in hospitals, public health departments, voluntary health agencies, or other appropriate settings. Experiences are supervised by a faculty member and must be approved in advance. Periodic progress reports are required, and evaluation is on an S-F basis only.

C717 Advanced Seminar in Public Health (1-3 cr.) P: Graduate GPA of at least 3.0 and advanced graduate student status. Advanced topics in the area of public health are studied under the direction of faculty members with specialized areas of expertise. Specific topics vary and may be repeated for credit.

C777 Doctoral Seminar in Public Health (1-3 cr.) P: Graduate GPA of at least 3.0 and doctoral student status. Research techniques in public health are reviewed and examples of current and completed research projects and other professional literature are critiqued. Particular attention is given to dissertations being planned or in progress. Only S-F grades given.

School and College Health

H160 First Aid and Emergency Care (3 cr.) Lecture and demonstration on first-aid measures for wounds, hemorrhage, burns, exposure, sprains, dislocations, fractures, unconscious conditions, suffocation, drowning, and poisons, with skill training in all procedures.

H220 Death and Dying (3 cr.) Introductory analysis of the dying and death experience with emphasis on the development of a healthy personal death awareness. Topics include processes of dying, needs and care of the dying person, grief, legal and consumer aspects, and children and death.

H305 Women’s Health (3 cr.) This course is designed to provide students with an opportunity to examine the relationship of women to health and health care. Five dimensions of health—physical, mental, emotional, social, and spiritual—provide a framework for comparison and contrast of health concerns unique to women and common to both sexes at all ages.

H311 Human Diseases and Epidemiology (3 cr.) This course deals with the study of major communicable and noncommunicable disease processes that afflict modern man. Emphasis is placed upon the etiology, epidemiology, preventive measures, as well as ecology of diseases.

H315 Consumer Health (3 cr.) This course provides students with (1) a model for making informed consumer health related decisions; (2) current information involving informed decisions; (3) mechanisms for continued consumer awareness and protection, i.e., sources of accurate consumer information and lists of consumer information and protection agencies.

H317 Topical Seminar in Health Education (1-3 cr.) The topical seminars will relate to current issues in the field of health education. Possible topics may be: death and dying, the nature of cancer, health care delivery systems, human sexuality and health, drug use, and others. May be repeated for credit if topic differs.

H318 Drug Use in American Society (3 cr.) An interdisciplinary approach to the study of drug use in American society. The course will examine the effects of alcohol, tobacco, and the “illicit” drugs on the physical, mental, and social health of the individuals.

H320 The Nature of Cancer (3 cr.) This course deals mainly with primary and secondary prevention of cancer. Various topics include lifestyle and cancer, causes of cancer, types of cancer, methods of detecting cancer, methods of treating cancer, and public attitudes. Economic and psychological problems involved with cancer are discussed.
H363 Personal Health (3 cr.) This survey course provides a theoretical and practical treatment of the concepts of disease prevention and health promotion. Course content includes topics such as emotional health; aging and death; alcohol, tobacco, and drug abuse; physical fitness; nutrition and dieting; consumer health; chronic and communicable diseases; safety; and environmental health.

H414 Health Education in Grades K-8 (3 cr.) Practical guidelines for developing health and safety education programs in grades K-8 are suggested. Course content includes consideration of child health problems, school health service programs, the school environment, subject matter in health instruction, curriculum development, lesson unit planning, innovative approaches to health teaching, and evaluation.

H440 Research in Health and Safety Education (1-3 cr.) Undergraduate research done in the field of health and safety under a faculty advisor in the department.

H441 Readings in Health and Safety Education (1-3 cr.) Planned readings in specialized areas of professional interest to be conducted under the direction of a member of the faculty. Enrollment is limited to seniors or advanced juniors who are majors in the department. Readings proposal must be approved in advance.

H445 Travel Study (1-10 cr.) P: Permission of sponsor. Planned study tours of school and public health programs throughout the United States and selected foreign countries are conducted under the direction of a faculty sponsor. Specific tours vary and may be repeated for credit.

H460 Practicum in First Aid Instruction (3 cr.) P: Standard first-aid certificate or completion of H160. Advanced consideration of first aid subject matter; orientation in methods, techniques, and teaching devices in first-aid courses; practical classroom instruction required. Completion of courses qualifies one as Standard First Aid and Personal Safety Instructor.

H464 Organization of Health Education (3 cr.) P: HPER H363 or permission of instructor. Organization of total health program involving health services, healthful school living, and health instruction. Content and materials suitable for a high school health course stressed. Introduction to public health, functions of voluntary and official agencies and textbook evaluation.

H494 Research and Evaluation Methods in Health and Safety (3 cr.) This course deals with general concepts and foundations of measurement, evaluation and research. Additionally, the course covers major methods, and techniques of research and evaluation. Special emphasis is given to writing small research and grant proposals.

H500 Philosophy and Principles of Health Education (3 cr.) The philosophy and principles that provide the foundation for health and safety education as academic disciplines are explored. Specific topics include history of the professions, theories of health behavior, principles of learning applied to health communications, diffusion and adoption in health promotion, professional preparation, and areas of professional specialization.

H501 Curriculum Development in Health Education (3 cr.) The theory and practice of curriculum development in health education are examined, including philosophy and principles of curriculum development; community involvement; scheduling and sequence of health instruction; yearly, unit, and lesson planning; course of study preparation; evaluation strategies; and practical procedures for organizing a curriculum development project.

H502 Instructional Strategies for Health Education (3 cr.) Innovative strategies for the teaching of health education are applied. Emphasis is given to conceptualizing instruction, specifying instructional objectives, planning units and lessons, utilizing various instructional methods, selecting and using instructional materials, and evaluating teaching effectiveness.

H510 Organization and Administration of School Health Programs (3 cr.) Criteria for the organization, implementation, and evaluation of health education programs in schools are recommended within the areas of administration, health instruction, health services, and the healthful school environment. Special roles and responsibilities of teachers, nurses, administrators, and other school and community personnel in promoting child health are noted.

H511 Advanced Emergency Care (3 cr.) Skills required to render advanced first aid and emergency care in various accident and disaster situations are developed. Procedures for personal and family survival in natural or human disasters are reviewed. Interested students may qualify for instructor certification.

H512 Understanding the Medicated Student/Client (3 cr.) A non-medical introduction is provided for teachers, administrators, agency personnel, and others who work with children or adults on sustaining prescription
medications. How such medications affect the performance of students or clients is examined. Additional topics include drug actions, interactions, indications, contraindications, and side effects.

H514 Health Education in Elementary and Middle Level Schools (3 cr.)
Recommendations for providing comprehensive health education programs for elementary, junior high, and middle school children are proposed. Topics include assessment of child health needs, health observation and screening, subject matter selection, curriculum planning, and evaluation. Creative teaching through health fairs, health museums, projects, gaming, simulations, and experimentation is emphasized.

H515 Human Sexuality Education in Schools (3 cr.) Competencies in human sexuality education are identified for teachers, administrators, nurses, and other school personnel. Specific activities include developing a comprehensive vocabulary in human sexuality education, establishing effective communication skills, and reviewing various educational techniques and materials relevant to the teaching of human sexuality.

H517 Workshop in Health Education (1-3 cr.)
Interesting topics of relevance to individuals in school and public health and related disciplines are conducted in workshop fashion under the direction of faculty members. Emphasis is placed upon practical application, group involvement, and the use of resource personnel. Specific topics vary and may be repeated for credit.

H518 Alcohol and Drug Education (3 cr.)
Alcohol and drug abuse in American society are probed in a comprehensive yet practical manner. Physiological, psychological, sociological, theological, and legal dimensions of the issue are explored through lectures, group discussions, guest speakers, and audio-visual presentations. Principles of teaching and counseling in drug education programs are discussed.

H519 Contemporary Issues in Health Promotion (3 cr.) A variety of contemporary issues related to lifestyle and health behavior are surveyed. Issues for study may include emotional health, value systems, stress and depression, aging and death, drug abuse, physical fitness, weight control, consumer health, chronic and communicable diseases, human sexuality, and environmental health.

H520 Death Education (3 cr.) Designed to prepare educators and health-related personnel for presenting death education and/or dealing with dying and death in the work setting. Educational methodology and materials, helping/supportive strategies and background content about death and dying are presented.

H521 Consumer Health (3 cr.) Consumer decision-making models, interpretation and assessment of available information related to consumer issues, and identification of consumer awareness and protection resources are analyzed. Emphasis is placed on the health educator's role in a consumer-based society.

H522 Women's Health (3 cr.)
The relationships of women to health and health care are examined, with attention to health concerns unique to women and common to both sexes throughout the lifespan. Current information related to women's health issues and the health educator's role in women health arena are emphasized.

H525 Computer Applications in Health Education (3 cr.) Computer applications specific to health education are examined, with emphasis on computer-assisted instruction development and evaluation, instructional and office management, and health education research applications for statistical packages. Students select projects based on degree concentration and/or area of interest.

H528 Issues in Substance Abuse (3 cr.)
Various drugs including alcohol, sedative-hypnotics, narcotic-analgesics, cocaine, xanthines, cannabis, hallucinogens, over-the-counter, prescription, and other substances causing health problems in our culture are identified and discussed. Emphasis is placed upon history, symptoms of use and abuse, and the role of the health educator in prevention and referral.

H530 Trends and Issues in International Health (3 cr.) Major trends and issues related to international health are examined, with attention to health-care systems, nutrition, family planning, distribution and nature of communicable and chronic diseases, and preventive measures in selected countries in the world. Special emphasis is given to problems that can be prevented through health education programs.

H540 Practicum in College Sex Education (3 cr.) The course includes the study of sexuality education methodology, preparation of learning activities dealing with human sexuality, evaluation of student papers, and leading discussion sections of F255, Human Sexuality.

H555 Issues in Human Sexuality and Health (3 cr.) Issues, problems, and scientific concepts of human sexual expression in contemporary society are examined, with
particular attention to their relationships to individual health and the development of a healthy sexuality.

H594 Measurement and Evaluation in Health Education (3 cr.) Procedures for planning and conducting evaluations of school and community health education programs are specified. Use of health-related questionnaires, interviews, telephone surveys, rating scales, knowledge and attitude instruments, and behavior inventories by health educators is described. Guidelines for compiling, analyzing, summarizing, and reporting the results of evaluations are suggested.

H595 Grants and External Funding in Health Education (3 cr.) Competencies needed to prepare proposals for grants, contracts, and other external funding for health promotion are developed. Budgeting, contract administration, technical specifications, and strategies for locating funding sources are discussed. Students prepare and submit a proposal for funding.

H599 Master's Thesis (cr. arr.)

H617 Seminar in Health Education (1-3 cr.) Contemporary topics in the area of health education are studied under the direction of faculty members with specialized areas of expertise. Specific topics vary and may be repeated for credit.

H618 Research in Health Education (1-5 cr.) P: Graduate GPA of at least 3.0. Research projects are conducted under the direction of a member of the graduate teaching faculty. Enrollment is limited to advanced graduate students, and project proposals must be approved in advance.

H641 Readings in Health Education (1-5 cr.) P: Graduate GPA of at least 3.0. Planned readings in specialized areas of professional interest are conducted under the direction of a member of the graduate teaching faculty. Enrollment is limited to advanced graduate students, and reading proposals must be approved in advance.

H642 Internships in Health Education (1-10 cr.) P: Graduate GPA of at least 3.0. Professional internships in school or agency settings are conducted under the direction of a faculty member. Internship experiences must be approved in advance and are available only upon completion of coursework for a master's degree. Evaluation is on an S-F basis only.

H643 Practicum in Health Education (1-10 cr.) P: Graduate GPA of at least 3.0. Practical learning experiences are completed in appropriate professional settings under the direction of a faculty member. Practicum experiences must be approved in advance. Seminars are held periodically throughout the practicum. Evaluation is on an S-F basis only.

H645 Travel Study (1-10 cr.) P: Permission of sponsor. Planned study tours of school and public health programs throughout the United States and selected foreign countries are conducted under the direction of a faculty sponsor. Specific tours vary and may be repeated for credit. Only S-F grades given.

H717 Advanced Seminar in Health Behavior (1-3 cr.) P: Graduate GPA of at least 3.0. Advanced graduate student status. Advanced topics in the area of health behavior are studied under the direction of faculty members with specialized areas of expertise. Specific topics vary and may be repeated for credit.

H720 Research in Health Behavior (1-10 cr.) P: Graduate GPA of at least 3.0. Permission of instructor. Research projects in the area of health behavior are conducted under the direction of a member of the graduate teaching faculty. Enrollment is limited to advanced doctoral students, and project proposals must be approved in advance.

H721 Readings in Health Behavior (1-10 cr.) P: Graduate GPA of at least 3.0. Permission of instructor. Planned readings in the area of health behavior are conducted under the direction of a member of the graduate teaching faculty. Enrollment is limited to advanced doctoral students, and reading proposals must be approved in advance.

H777 Doctoral Seminar in Health Education (1-3 cr.) P: Graduate GPA of at least 3.0. Doctoral student status. Research techniques in health education are reviewed, and examples of current and completed research projects and other professional literature are critiqued. Particular attention is given to dissertations being planned or in progress. Only S-F grades given.

H790 H.S.D. Dissertation (cr. arr.)

H799 Ph.D. Dissertation (cr. arr.)

Safety Management

S155 Driver Education (2 cr.) Prepares students for state examinations. Classroom instruction and supervised practice driving, including traffic situations, rules of the road, highway courtesies, and formation of desirable attitudes.

S317 Topical Seminar in Safety Education (1-3 cr.) The Topical Seminars will relate to current issues in the field of Safety Education. Possible topics for this seminar might be: new requirements for controlling hazardous material, the changing legal
environment of the safety professional, new techniques in accident investigation, system safety and the safety manager, human factors, and workplace design.

**S350 Content and Materials in Safety Education (2 cr.)** For secondary school teachers and principals. General safety education in the instructional program, program content for the elementary school, and accident causes and remedial action. Laboratory has projects on campus and in community.

**S351 Leadership Development in the Shooting Sports (2 cr.)** Trains voluntary leaders in community programs in shooting sports. Students may qualify as NRA certified rifle, pistol, and shotgun instructors. Emphasis on firearm safety and the teaching of marksmanship.

**S440 Research in Safety Education (1-3 cr.)** Undergraduate research done in the field of safety education under the direction of a faculty member in the department.

**S441 Readings in Safety Education (1-3 cr.)** Planned readings in safety education to be conducted under the direction of a member of the faculty. Enrollment is limited to seniors or advanced juniors who are majors in the department. Readings proposal must be approved in advance.

**S444 Field Experience in Occupational Safety (1-10 cr.)** Field experience through on-the-job and related opportunities in occupational safety. Students will be assigned to industrial and occupational enterprises offering professional development for the safety specialist. Periodic critiques will be scheduled with supervisory personnel. Written progress reports will be required.

**S456 Traffic Safety Education for Teachers (4 cr.)** Materials and methods for high school classroom and practice driving instruction. Psychophysical limitations of drivers, driving procedures, care procurement, scheduling, public relations, maintenance, pedestrian protection, skill exercises, road training. Students teach beginners. Chauffer's license required.

**S458 Driver Education Multiple Instruction Techniques (3 cr.)** Multi-media techniques, methods, and materials of instruction including multi-media learning systems and driving simulators. Multiple car methods of instruction including the design and operation of off-street driving ranges. Open only to juniors, seniors, and graduate students who will be completing certification in the field of driver education.

**S501 Program Development in Safety Management (3 cr.)** Program development in safety management is examined, including needs assessment, programming, and evaluation options. Past, present, and future management practices are critiqued; and selected safety management models (MBO, Keppner, Tregoe, MORT, Epidemiological, Systems) are analyzed. Adoption of management techniques consistent with current trends in safety risk decision making is emphasized.

**S502 Instructional Strategies for Safety Education (3 cr.)** Approaches to the preparation and delivery of comprehensive instructional programs in safety settings are examined. Course content includes principles of program organization in safety education, specifying goals and objectives for safety instruction, planning lessons and units of instruction, identifying and utilizing methods and safety resource materials, and evaluating instructional effectiveness.

**S510 Organization and Administration of Safety Management Programs (3 cr.)** Guidelines for the organization and administration of comprehensive safety management programs are considered. Course content includes theories of management and supervision, program planning, staffing, reporting, record-keeping, and budgeting procedures. Management models and administrative functions for programs in schools, colleges, business, industry, and government are analyzed.

**S511 Driver Education and Transportation Safety (3 cr.)** Administrative considerations in the planning, implementation, and evaluation of driver training and transportation safety programs are explored. Problem areas include the development of advanced driving skills, road testing, insurance coverage, and the conduct and analysis of traffic and transportation surveys. Current research literature and areas of research need are examined.

**S513 Safety Management in Business and Industry (3 cr.)** Principles of safety management applicable to business and industrial settings are addressed, including accident causation theories, risk analysis and loss control, learning theories and behavioral factors applied to adult learners, selection of special educational techniques and materials, and program evaluation methods. Case studies, resource personnel, and field visitations are utilized.

**S517 Workshop in Safety Education (1-3 cr.)** Interesting topics of relevance to individuals...

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^1 May be taken for graduate credit.
in safety education and related disciplines are conducted in workshop fashion under the direction of faculty members. Emphasis is placed upon practical application, group involvement, and the use of resource personnel. Specific topics vary and may be repeated for credit.

**S617 Seminar in Safety Education (1-3 cr.)**
Contemporary topics in the area of safety education are studied under the direction of faculty members with specialized areas of expertise. Specific topics vary and may be repeated for credit.

**S640 Research in Safety Education (1-5 cr.)**
P: Graduate GPA of at least 3.0. Research projects are conducted under the direction of a member of the graduate teaching faculty. Enrollment is limited to advanced graduate students, and project proposals must be approved in advance.

**S641 Readings in Safety Education (1-5 cr.)**
P: Graduate GPA of at least 3.0. Planned readings in specialized areas of professional interest are conducted under the direction of a member of the graduate teaching faculty. Enrollment is limited to advanced graduate students, and reading proposals must be approved in advance.

**S642 Internships in Safety Education (1-10 cr.)**
P: Graduate GPA of at least 3.0. Professional internships in appropriate settings are completed under the direction of a faculty member. Internship experiences must be approved in advance and are available only upon completion of coursework for a master’s degree. Evaluation is on an S-F basis only.

**S643 Practicum in Safety Education (1-10 cr.)**
P: Graduate GPA of at least 3.0. Practical learning experiences are completed in appropriate professional settings under the direction of a faculty member. Practicum experiences must be approved in advance. Seminars are held periodically throughout the practicum. Evaluation is on an S-F basis only.

**S717 Advanced Seminar in Safety Management (1-3 cr.)**
P: Graduate GPA of at least 3.0 and advanced graduate student status. Advanced topics in the area of safety management are studied under the direction of faculty members with specialized areas of expertise. Specific topics vary and may be repeated for credit.

**S777 Doctoral Seminar in Safety Education (1-3 cr.)**
P: Graduate GPA of at least 3.0 and doctoral student status. Research techniques in safety education are reviewed, and examples of current and completed research projects and other professional literature are critiqued. Particular attention is given to dissertations being planned or in progress. Only S-F grades given.

**Hazard Control Technology**

**S100 Basics of Explosives (3 cr.)**
Principles, concepts, techniques, and applicable regulations governing the safe development, production, storage, handling, transportation, testing, disposal and fleet use of ammunition and explosives. Designed exclusively for Navy civilian and military personnel.

**S101 Introduction to Safety Science (3 cr.)**
Surveys the safety profession and examines the safety movement from an historical perspective. A conceptual overview of public safety, industrial safety, traffic safety, recreational safety, and home safety are developed. Requirements and opportunities in the field of hazard control are discussed.

**S151 Safety Codes and Standards (3 cr.)**
General industry codes, standards, and requirements developed as a result of the Occupational Safety and Health Act are reviewed. In addition, the codes and standards resulting from other safety and health legislation and those created by other public or private agencies that have an impact on the safety profession are discussed.

**S152 Occupational Safety — General Industry Standards (3 cr.)**
An introduction and analysis of the Occupational Safety and Health general industry standards as they apply to the private sector and the federal sector. Includes an inspection practicum. Designed exclusively for Navy civilian and military personnel.

**S153 Occupational Safety Construction Standards (3 cr.)**
Introduction and analysis of Occupational Safety and Health standards as they apply to maritime operations in the private sector and the federal sector. Includes an inspection practicum. Designed exclusively for Navy civilian and military personnel.

**S154 Occupational Safety Maritime Standards (3 cr.)**
Introduction and analysis of Occupational Safety and Health standards as they apply to maritime operations in the private sector and the federal sector. Includes an inspection practicum. Designed exclusively for Navy civilian and military personnel.

**H201 Introduction to Industrial Hygiene (3 cr.)**
Fundamentals of industrial health and hygiene including identification and evaluation of health hazards, control of occupational hazards, laboratory analysis, effects of occupational environment on human health and performance. Emphasis is
placed on application of theory and technique.
S202 Fundamentals of Fire Protection (3 cr.) Reviews fire protection codes and standards, principles and practices; fire theory, fire safety, design, fire protection systems and equipment, and fire hazards. Emphasis is placed on the life safety aspect of fire protection.
S251 Accident Investigation Analysis and Reporting (3 cr.) Introduction and review of accident investigation techniques, methods and requirements for collection; evaluation and reporting of accident data. Interrogation techniques, sources of evidence, and legal aspects will be discussed.
S252 Human Factors Analysis (3 cr.) Techniques, procedures and principles for utilizing human factors engineering and analysis in connection with the design or evaluation of the workplace, equipment, material, and the environment. Human physiological, psychological, and sociological factors are examined for their impact on the effective, efficient use of the working environment.
H253 Health and Safety Evaluation Laboratory (3 cr.) Selection, use, and maintenance of major health and safety instruments as required in Occupational Health and Safety practice. Practical experience in the use and calibration of instruments will be provided.
S253 Hazard Control Program Management (3 cr.) Principles, theories, and concepts of safety and health program management. Comparisons of past, present, and future management practices in the safety profession. The role of the safety professional in the conduct of a total safety program is emphasized.
H301 Advanced Industrial Hygiene (3 cr.) As a sequel to Introduction to Industrial Hygiene, H201, theory and definitive application of principles and concepts for health hazard recognition, evaluation and control strategies and methods in the industrial environment will be presented primarily for chemical hazards and to a lesser extent for physical hazard. Operational and managerial application for occupational programs will be emphasized.
S352 Systems Safety Analysis (3 cr.) Theory and application of system safety techniques using inductive and deductive logic diagramming. Operations and management of systems safety programs, system safety mathematics and their interface with the computer are developed.
S353 Hazard Control Program Administration (3 cr.) Management, policy making, and administration techniques used in the public and private sector. Strategies and techniques needed to respond to the frequent problems confronting the safety manager are emphasized.
S354 Hazardous Materials and Waste Control (3 cr.) An introduction to and review of hazardous material regulations, and hazardous materials control methods, including hazardous wastes. Occupational and environment requirements and exposures are covered. The course will provide guidance and common examples of materials that are toxic, corrosive, reactive, explosive, flammable, and combustible. These classes of materials will be considered from their generation to disposal.
S357 Safety Education and Training (3 cr.) A review of the requirements, techniques, and procedures for developing, operating, and evaluating safety training programs for management and employees. This course covers all aspects of safety training, including such specific elements as explosives, occupational safety and health, hazardous materials, and fire. The essential elements of a company's safety training plan, consistent with federal and state guidelines, will be discussed.
S358 Motor Vehicle and Traffic Safety Engineering (3 cr.) An introduction to and review of federal and state motor vehicle and traffic safety standards and management practices applicable to corporations and institutions. Safety standards that apply to motor vehicle operators, vehicle inspections programs, roadway design, and marking criteria and traffic safety management are included.
S401 Hazard Control Engineering (3 cr.) P: HPER S101. Technical principles of safety and health hazard control. Emphasis is placed on the design, selection, testing, and modification of hazardous agents and environments. Requisite codes, standards, and requirements for hazard control engineering are examined.
S444 Field Experience in Occupational Safety (2-8 cr.) Field experience through on-the-job and related opportunities in occupational safety. Students will be assigned to industrial and occupational enterprises offering professional development for the safety specialist. Periodic critiques will be scheduled with supervisory personnel. Written progress reports will be required.
Physical Education Professional Program

Athletics

A181-A182 Orientation in Athletic Training I-II (1-1 cr.) Introduction to planning and operation of athletic training room, equipment room, and locker areas. Opportunity for observing training room techniques.

A281 Basic Principles of Athletic Training (3 cr.) The role of the trainer in sports, professional relationship with other disciplines, principles of athletic fitness, and organization and administration of training program stressed. Practical experience offered to those with an emphasis in athletic training.

A282 Basic Techniques of Taping and Bandaging (3 cr.) Through classroom study, students will learn the skills of taping, bandaging, and first-aid methods associated with prevention and care of athletic injuries. Assignments in the training room for those emphasizing athletic training provide practical experience.

A361 Coaching of Football (1/2 cr.) P: HPER P229 or permission of instructor. Fundamentals of offensive and defensive line and backfield play; technique of forward passing; outstanding rules; offensive plays; most frequently used defenses.

A362 Coaching of Basketball (1/2 cr.) P: HPER P122 or permission of instructor. Fundamentals of basket shooting, passing, ball handling, and footwork; patterns against man-to-man defense, zone defense, and zone pressure defense—full court and half court. Strategy of playing regular season and tournament play. Psychology of coaching.

A363 Coaching of Baseball (1/2 cr.) P: HPER P233 or permission of instructor. Fundamentals of pitching, catching, batting, base running, infield and outfield play; offensive and defensive strategy; organization and management.

A364 Coaching of Track and Field (1/2 cr.) P: HPER P121 or permission of instructor. Fundamental procedures in conditioning and training for cross country, track, and field. Gives basic understanding of each event's coaching strategy and coaching psychology. Home meet organization and management.

A365 Coaching of Wrestling (1/2 cr.) P: HPER P234 or permission of instructor. Three basic purposes: a better understanding and appreciation of collegiate and high school wrestling; teaching the basic fundamentals of wrestling—takedowns, escapes, reversals, pinning combinations, and counter maneuvers for each; interpreting and insuring proper use of amateur wrestling rules.

A366 Coaching of Gymnastics (1/2 cr.) P: HPER P222 or permission of instructor. Practical and theoretical experiences in gymnastics dealt with: students participate in performance of skills in the gym and in class discussion sessions dealing with conducting of meets, organizing workouts, ordering equipment, officiating, history and development of gymnastics, governing bodies, and psychology of coaching.

A367 Coaching of Swimming and Diving (1/2 cr.) P: WSI Certificate or permission of instructor. Theory and methods of coaching swimming and diving covering technical, administrative, and organizational aspects of the process. Emphasis placed on fundamentals, conditioning, and coaching psychology.

A368 Coaching of Tennis (1 cr.) P: HPER P121 or permission of instructor. Theory and methods of coaching tennis covering technical, administrative, and organizational aspects of the process. Emphasis placed on fundamentals, tactics, conditioning, and conduct of practice sessions.

A369 Coaching of Golf (1/2 cr.) P: HPER P230 or permission of instructor. Theory and methods of coaching golf covering technical, administrative, and organizational aspects of the process. Emphasis on skill analysis, error identification and correction, special golf shots, and strategies for playing the course.

A370 Coaching of Soccer (1/2 cr.) P: HPER P122/Soccer or permission of instructor. Theory and methods of coaching soccer covering technical, administrative, and organizational aspects of the process. Emphasis on execution of advanced skills and team offense and defense patterns, conditioning the player, and organizing practice sessions.

A371 Coaching of Volleyball (1/2 cr.) P: HPER P122/Volleyball or permission of instructor. Theory and methods of coaching volleyball covering technical, administrative, and organizational aspects of the process. Emphasis on execution of advanced skills and team offense and defense patterns, conditioning the player, and organizing practice sessions.

A381-A382 Laboratory Practice in Athletic Training I-II (2-2 cr.) Laboratory hours are
assigned so that students have an opportunity to practice athletic training skills during all sports seasons. Direct supervision and guidance provided by the athletic team physician and the athletic training staff.

A383 Scientific Foundations of Athletic Training (3 cr.) Classroom course emphasizing policies and procedures related to organization and administration of a comprehensive athletic training program on a high school and/or college level. Includes advanced techniques of managing athletic injuries.

A480 Care and Prevention of Athletic Injuries (1 cr.) Course designed to assist student in recognizing, understanding, and managing athletic injuries. Methods of taping and bandaging are emphasized.

A481 Practicum in Athletic Training (2 cr.) Variety of experiences provided through assignments to university varsity sports, high school sports, middle school sports, and reserve programs. Students will be under the experienced guidance and control of medical and athletic training supervisors.

A483 Principles of Sports Officiating (1 cr.) Topics include such sports as: football, baseball, basketball, volleyball, and gymnastics. Ethics of sport officiating; mastery, interpretation, and application of sports rules. Laboratory and classroom experiences. Course may be repeated.

A484 Interscholastic Athletic Programs (2 cr.) An overview of the operation of athletic programs in the schools for men and women. Administrative structure on national and state levels. Policies and procedures as they pertain to budget, facilities, eligibility, contest regulations, safety, and current trends.

A485 Advanced Undergraduate Techniques (cr. arr.) Advanced preparation in techniques of teaching such sports and activities as swimming, wrestling, football, baseball, track and field, minor athletic games, gymnasium floor apparatus, and rhythmic.

A581 Principles and Practices in Athletic Training (3 cr.) Organization, administration, and functions of athletic training programs emphasized. Laboratory experiences related to various techniques in conditioning and bandaging practiced.

A582 Problems in Athletic Training (3 cr.) Study of the various problems confronting an athletic trainer. These experiences are developed through lectures, demonstrations, and discussions with authorities (including physicians and lawyers) in the areas of concern.

A583 Administrative Theory of Competitive Sports Programs (3 cr.) Organization of high school athletics with reference to national, state, and local control. Staff, program, budget, health and safety, facilities, and other phases of administration.

A584 Administration of Athletic Training (3 cr.) Designed to provide classroom and practical experience in developing pre-athletic physical examinations, the athletic training responsibilities as viewed by the administrator of athletic programs, certification examination requirements, and cardio-pulmonary resuscitation.

A585 Rehabilitation and Conditioning of Athletes (3 cr.) Introduction to the scientific background necessary for understanding, planning, and conducting conditioning and rehabilitation programs for athletes; procedures, methods, and factors for developing such programs are emphasized.

A586 Athletic Training Principles for Therapeutic Modalities (3 cr.) Physical and chemical properties of hydro- and electrotherapy with an emphasis on the physiological and anatomical principles, techniques, and legal aspects of application.

A640 Independent Study and Research (cr. arr.) Independent research conducted under guidance of a graduate faculty member.

A642 Internships in Athletics (2-8 cr.) Off-campus professional field experience in school or agency situation under qualified supervision. Offered only after completion of course work for master's degree.

Dance

D121 Techniques of Movement Improvisation (1 cr.) Experiences in creative movement expression through participation in structured dance activities.

D151 Introductory Rhythmic Training (1 cr.) A presentation of basic rhythm theory using music rhythm notation as the principal medium. Emphasis on aural perception of rhythm through ear training exercises. An introduction to concepts of musical form in classical, popular, and folk music, with emphasis placed on aural perception.

D161 Foundations of Modern Dance (2 cr.) A survey of modern dance in contemporary society; theories, philosophies, personalities, and trends.

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1 Required of freshmen with emphasis in athletic training.
2 Required of athletic training students and open also to HPER students above freshman level with permission of the instructor.
D200 Dance in Elementary Education (1 cr.)
Designed to aid the prospective teacher in presenting a well-rounded program of rhythmic activities on the elementary level, including the use of dance movement as an expressive medium for children.

D201 Modern Dance Workshop I-II-III-IV (1 cr. each semester) Open to dance majors/minors only. Collaboration of dance faculty in providing a wide variety of movement experiences in the areas of techniques, composition, and improvisation. This course may be repeated.

D211 Advanced Technique I (2 cr.) P: HPER E355 or instructor's permission. Designed to allow the student to develop a higher level of technical proficiency, with an emphasis on the application and analysis of various movement principles as they relate to dance and performance.

D212 Advanced Technique II (2 cr.) P: HPER D211. An extension of principles examined in D211, with an emphasis on style and performance, through the use of longer and more complex movement sequences.

D218 Modern Jazz Dance Technique (1 cr.)
Instruction in jazz dance technique derived from the styles of Luigi and Gus Giordano; special emphasis on centering, precision and clarity of movement, coordination, and performance skills—specifically style and visual focus.

D221 Dance Composition I (2 cr.) P: HPER E255 or E355. Through problem-solving assignments appropriate for dance composition, tools for discovering movement will be developed.

D222 Dance Composition II (2 cr.) P: HPER D221. Elements for forming and structuring movement into complete dances.

D252 Rhythmic Form and Analysis (2 cr.) P: HPER D151. A further study of rhythm theory, using both music and dance movement as media. Emphasis on individual performance and creativity. Discussion of principles of musical-spatial elements. Exercises in rhythmic-metric analysis of music and dance accompaniment techniques.

D261 Indiana University Dance Theatre (0-2 cr.) A modern dance repertory company.

D311 Theory and Practice of Dance Technique I (2 cr.) P: HPER D212. Development of individual's dance technique through basic understanding of various theories and principles existing within the modern dance form. For dance/ballet majors/minors and members of IU Dance Theatre.

D312 Theory and Practice of Dance Technique II (2 cr.) P: HPER D311. Further investigation of the theories and philosophies of technical training introduced in D311. Their efficient application to teaching and performing. For dance/ballet majors/minors and members of IU Dance Theatre.

D331 Dance and the Allied Arts I (3 cr.)
Historical development of dance and the related arts, primitive through medieval.

D332 Dance and the Allied Arts II (3 cr.) P: HPER D331, consent of instructor. Historical development of dance and related art forms, renaissance through contemporary.

D351 Teaching of Modern Dance (1 cr.) P: HPER P221. Study of various approaches, methods, and materials for teaching dance on the secondary level, including procedures for evaluation.

D353 Musical Resources for Dance (2 cr.)
Presentation of criteria for selection of music for dance accompaniment. Aural evaluation of various musical styles with emphasis on their adaptability as dance accompaniment. Visual-aural analysis of musically-accompanied choreography.

D421 Choreographic Performance Project (2 cr.)
Under faculty guidance, each student is responsible for initiating and developing a completed work for concert performance. Senior dance performance majors only.

D441 Dance Production I (2 cr.)
Basic orientation to technical theatre, specifically for dance. Production methods for publicity, audio-visual materials, and make-up design. Includes presentation of an original lecture-demonstration.

D442 Dance Production II (2 cr.) P: HPER D441. Basic theories of color, costuming, stage lighting, and set design as they relate to dance. Practical application in studio concerts.

D461 Basic Methods of Dance Notation (1 cr.) P: Previous dance training. Methods and systems of recording and analyzing movement.


D501 Dance Movement Analysis (3 cr.)
Readings in, application of, and written reports concerning Laban Movement Analysis—the effort/shape, notation, space, harmony, and movement fundamentals of Rudolf von Laban and Irmgard Barteneff—and the applied kinesiology materials developed by Karen Clippinger-Robertson.

D511 Theory and Technique of Dance I (2 cr.) Reading and written reports of current materials concerning dance technique and
daily application of principles of efficient technique in classes which stress a balance of stretch and strength, mobility and stability, and exertion and recuperation. These classes will incorporate material covered in D501.

D512 Theory and Technique of Dance II (2 cr.) P: HPER D511. Readings in, written reports on, and daily application of newest information on modern dance technique, with stress on integration of information gained from sport science studies.

D521 Dance Composition I (2 cr.) Research in methods and techniques of movement exploration, readings on the creative process, study of form and structure. The student will improvise, create short studies solving assigned specific problems, and also create a finished and complete solo choreographic work.

D522 Dance Composition II (2 cr.) P: HPER D521. A study of group choreography, including readings, viewing video tapes of master works, and the creation of numerous short group studies on specific assigned areas.

D531 Dance History (2 cr.) An investigation (in the form of class presentations and discussions) of 20th Century art, music, theatre trends, and their historical effect on modern dance.

D541 Dance Production I (3 cr.) Readings, discussion, and practical experience in lighting design and execution, stage management, costuming, audio production, elements of stagecraft, budgeting, graphics, publicity and promotion for dance performance.

D542 Dance Production II (2 cr.) Basic theories of color, costume, stage lighting, and set design and construction, with emphasis on practical application.

D551 Dance in Education (2 cr.) Readings and discussions concerning methods of teaching modern dance technique and creative movement exploration. Practical experience in teaching at the college, secondary, and elementary levels.

D552 Music for Dance (2 cr.) Exploration and analysis of rhythm in music and dance. Study of musical notation and terminology to enable the dancer to communicate with composers and accompanists. The creation of simple musical materials—taped and live.

D553 Music for Dance II (2 cr.) P: HPER D552 or equivalent. Aural analysis of various musical styles for dancers focusing on the major periods in music history.

D561 Dance Repertory (1 cr.) The learning, rehearsal, and performance of modern dance and/or jazz dance choreography by Indiana University faculty or guest artists, under the auspices of the Indiana University Dance Theatre.

D562 Graduate Seminar (1 cr.) Discussion with resident dance faculty and guest artists of current issues in dance in education and dance in the professional theatre. A time for special interests to be discussed and guidance in practical matters, such as preparation of resumes and audition procedures, to be given.

Physical Education

P121 Performance of Individual Sports (1-2 cr.) Fundamental skills and strategies of tennis, track and field. Exemption possible with satisfactory scores on knowledge and skill proficiency tests. Credit does not count toward the Major. P: for P323.

P122 Performance of Team Sports (1-2 cr.) Fundamental skills and strategies of basketball, volleyball, and soccer. Exemption possible with satisfactory scores on knowledge and skill proficiency tests. Credit does not count toward the Major. P: for P325.

P190 Fundamentals of Human Movement (1 cr.) Laboratory class dealing with the underlying factors that influence movement and the application of these factors to specific games, sports, and self-testing activities.

P211 Introduction to Sport Management (3 cr.) An examination of the broad spectrum of career opportunities available in the sport management profession. Special emphasis will be given to career planning, sport management terminology, and an overview of specific skills and courses required for professional preparation in sport management.

P212 Introduction to Exercise Science (3 cr.) An introduction to the science of exercise and human movement. Special topics in exercise physiology, sport biomechanics, sports medicine, and motor integration are discussed.

P220 Foundations of Racquet Sports (2 cr.) Instruction in fundamental skills of badminton and tennis, including scoring, rules, terminology, strategies, and etiquette. Instruction in teaching progressions, class organization, analysis of performance and error correction techniques will be included. Skills fundamental to all racquet sports (racquetball, squash, tennis, paddleball, badminton) will be analyzed, and lead-up games emphasized.

P221 Performance of Rhythm and Dance (2 cr.) Principles, terminology, and techniques of fundamental movements as they relate to
units of musical structure. Instruction in modern, folk, square, and ballroom dance.

P222 Performance and Teaching of Gymnastics (2 cr.) Instruction and analysis of skills in stunts, tumbling, gymnastics, and apparatus. Teaching techniques, methods of class organization, and safety procedures stressed. Opportunity to practice use of teaching skills.

P224 Foundations of Dance Activities (2 cr.) Methods and materials of folk, square, social, and modern dance. Terminology, fundamental skills, selection, and presentation of dances. Emphasis on planning dance units and teaching of dances. Fundamentals of locomotor and nonlocomotor skills as well as experiences in creative movement activities. Instruction in rhythmic movement progressions and development of materials for unit plans.

P225 Performance and Teaching of Archery (1 cr.) Instruction and analysis of skills, techniques, and strategies in archery. Development of skills in unit planning, error analysis, and correction.

P226 Performance and Teaching of Badminton (1 cr.) Instruction and analysis of skills, techniques, and strategies in badminton. Development of skills in unit planning, error analysis, and correction.

P227 Performance and Teaching of Bowling (1 cr.) Instruction and analysis of skills, techniques, and strategies in bowling. Development of skills in unit planning, error analysis, and correction.

P228 Performance and Teaching of Field Hockey (1 cr.) Instruction and analysis of skills, techniques, and strategies in field hockey. Development of skills in unit planning, drills, and modified game forms.

P229 Performance and Teaching of Flag Football (1 cr.) Instruction and analysis of skills, techniques, and strategies in flag football. Development of skills in unit planning, drills, and modified game forms.

P230 Performance and Teaching of Golf (1 cr.) Instruction and analysis of skills, techniques, and strategies in golf. Development of skills in unit planning, error analysis, and correction.

P231 Performance and Teaching of Martial Arts (1 cr.) Instruction and analysis of skills, techniques, and strategies in martial arts. Development of skills in unit planning, error analysis, and correction.

P232 Performance and Teaching of Racquetball, Squash, Handball (1 cr.) Instruction and analysis of skills, techniques, and strategies of racquetball, squash, and handball. Development of skills in unit planning, error analysis, and modified game forms.

P233 Performance and Teaching of Softball (1 cr.) Instruction and analysis of skills, techniques, and strategies in softball. Development of skills in unit planning, drills, and modified game forms.

P234 Performance and Teaching of Wrestling (1 cr.) Instruction and analysis of skills, techniques, and strategies in wrestling. Development of skills in unit planning, error analysis, and correction.

P239 Stunts, Tumbling, and Apparatus for Young Children (1 cr.) Instruction and analysis of skills and techniques in stunts, tumbling, and apparatus for elementary school children. Development of skills in unit planning, error analysis, and correction.

P240 Foundations and Principles of Physical Education (2 cr.) An introduction to physiological, psychological, sociological, and kinesiological principles related to physical education.

P249 Rhythmic Experiences for Children (1 cr.) Twenty-five to thirty folk and gymnastic dances and singing games suitable for playground, gymnasium, community center, and recreation in general.

P280 Principles of Athletic Training and Emergency Care (2 cr.) An introduction to the principles of injury prevention. Lecture and demonstration of emergency measures; for example: fractures, sprains, dislocations, and spinal injuries. Skill training in bandaging, strapping, splinting techniques emphasized.

P290 Movement Experiences for Pre-school and Elementary School Children (2 cr.) Provides the student with knowledge of potential outcomes of pre-school and elementary school motor development programs, of how to implement such programs, and of appropriate movement experiences for young children. Also provides the student with opportunities for observing and teaching young children in a structured gymnasium setting.

P300 Foundations of Stunts, Tumbling, and Apparatus (2 cr.) Instruction and analysis of skills in stunts, tumbling, gymnastics, apparatus, and nontraditional elementary basic skills. Both performance and teaching techniques are stressed.

P310 Foundations of Conditioning and Self-Testing Activities (2 cr.) Performance and

\[1\] Required of freshmen with emphasis in athletic training.
teaching of track and field (athletics) and fitness activities. Analysis of skill progressions and teaching techniques. Course to include physiological foundations of physical training and conditioning fundamentals, and teaching experience.

P320 Foundations of Team/Contemporary Activities I (2 cr.) Development of physical skills and teaching techniques of soccer and volleyball. Analysis of skills, progressions, drills, and unit planning skills. Knowledge of a variety of contemporary games that broaden a program in team sports.

P321 Teaching of Folk and Square Dance (2 cr.) P: PER P221. Methods and materials of folk dance instruction in upper elementary grades and high school; special attention to terminology, fundamental skills, selection, and presentation of dances.

P323 Teaching of Individual Sports (2 cr.) P: PER P121 or satisfactory proficiency test. Teaching of tennis, conditioning and weight training, and track and field. Analysis of skill progressions, teaching techniques, unit planning skills, error analysis and correction, and in-class teaching experiences. Development of scientific programs of conditioning with an emphasis on weight training techniques.

P324 Recreational Sports Programming (3 cr.) Course provides an overview of the programmatic elements and techniques which currently exist in recreational sports. Specific topics include informal, intramural, club and extramural programming, value and benefits of recreational sports, programming techniques, publicity and promotion, facility utilization, equipment concerns, safety, liability, and program observation.

P325 Teaching of Team Sports (2 cr.) P: PER P122 or satisfactory proficiency test. Teaching of soccer, basketball, and volleyball. Analysis of skills, progressions, teaching techniques, drills, unit planning skills, and in-class teaching experiences.

P326 Advanced Life Saving and Water Safety Instruction (2 cr.) P: Advanced swimming proficiency and 17 years of age. Instruction and analysis of swimming and life-saving skills. Teaching methods and organizational techniques for all levels of swimming. Qualifying students receive the A.R.C. WSI Certification.

P330 Organization and Administration of Aquatics (2 cr.) P: WSI. Development and administration of aquatic programs in elementary and secondary schools.

P333 Sport in America: Historical Perspectives (3 cr.) Study of the evolution of sport in the United States within the larger context of historical developments in society; women’s sport experiences in relation to the development of sport; examination of sport as a reflection of American culture from the founding of the colonies to the present.

P340 Foundations of Team/Contemporary Activities II (2 cr.) Development of physical skills and teaching techniques of basketball and softball. Analysis of skills, progressions, and unit plans. Knowledge of a variety of contemporary games that broaden a program in team sports.

P355 Foundations of Skill Core I (1 cr.) Development of physical skills and teaching techniques in activities such as archery, bowling, field hockey, golf, and the martial arts. May be repeated for credit if topic differs.

P384 Aquatics (1 cr.) Primarily for physical education and recreation majors. Emphasizes techniques of teaching swimming as well as the improvement of the students’ swimming skills.

P385 Pool Management, Maintenance, and Construction (2 cr.) Information in pool management, maintenance, and construction with emphasis on the newest design information and construction techniques.

P390 Growth and Motor Performance of School Age Youth K-12 (2 cr.) P: PER P240. A study of growth and developmental characteristics of school age youth. Emphasis is placed on motor development and movement performance, and the relationship to cognitive and affective behavior. Supervised teaching experiences are an integral part of the course.

P395 Practicum in Pre-School and Elementary School Physical Education (2 cr.) Provides the student with supervised teaching experiences in physical education with pre-school and elementary school children. Course may be repeated.

P396 Historical and Philosophical Foundations of Physical Education (3 cr.) Physical education in ancient societies, the Middle Ages, modern Europe, and the United States; ancient, medieval, and modern philosophies.

P397 Kinesiology (3 cr.) P: Anatomy A215. Application of facts and principles of anatomy, physiology, and mechanics to problems of teaching physical education skills and activities of daily living.

P398 Adapted Physical Education I (3 cr.) P: Anatomy A215 and PER P397. Study of conditions which require physical education programs to be adapted to special needs of individuals, including analysis of normal and faulty postures. Principles and practices in
application of exercises and activities for specific handicapped conditions.

P399 Practicum in Adapted Physical Education (1-2 cr.) P: HPER P398. A practical learning experience in adapted physical education with handicapped children. Course may be repeated.

P401 Adapted Physical Education II (3 cr.) P: Anatomy A215, HPER P397. Study of deviations from normal patterns of growth and development. Includes methods of recognizing physical divergencies, screening and referral for further examination, and adapting exercises and activities for prevention and correction of deviations.

P409 Basic Physiology of Exercise (3 cr.) P: PHSL P215 or the equivalent and Anatomy A215. A survey of human physiology parameters as related to physical exercise and work and the development of physiological fitness factors. Physiological foundations will be considered. Not available for graduate credit.

P411 Legal Aspects and Risk Management for Sport Settings (3 cr.) To examine legal issues related to sport settings. Special emphasis given to issues related to equal opportunity for participation, legal duties and responsibilities, negligence, and due process. Will include study of risk management, safety, and accident prevention.

P415 Sport Promotions and Public Relations (3 cr.) An introduction to the theories and techniques of sport promotions, public relations, and fund-raising.

P422 Advanced Techniques for Teaching and Coaching Gymnastics (2 cr.) P: HPER P222. Course concentrates on intermediate and advanced levels of gymnastics competition; uneven parallel bars, balance beam, trampoline, floor exercise, and vaulting as well as coaching techniques and methods of conditioning.


P427 Administration, Maintenance, and Construction of Aquatic Facilities (3 cr.) The administration, maintenance, and construction of swimming pools and waterfront facilities with emphasis on the latest design and maintenance information.

P429 Aquatic Composition and Show Production (2 cr.) Laboratory experiences in aquatic composition and show production.

P444 Issues in Physical Education (3 cr.) A senior seminar. Major arguments pro and con on a number of controversial ideas in the field of physical education are considered.

P446 Sports Science Seminar (3 cr.) Students will discuss contemporary issues of sports science, as well as critiques of research in an area of special interest. They will be responsible for developing an original scholarly paper to demonstrate the ability to carry out investigative processes in problem solving and critical writing.

P447 Special Problems in Physical Education and Athletics (cr. arr.) Workshops, institutes, clinics, or seminars in physical education or athletics. Credit will depend upon the nature of the project undertaken and the length of time involved. Course may be repeated.

P448 Internship in Sports Science (1-3 cr.) A field learning experience for senior sports science majors. Only S-F grades given.

P449 Internship in Sport Management (2-12 cr.) A field learning experience for sport management majors. Only S-F grades given.

P450 Organizational and Psychological Foundations of Coaching (3 cr.) Psychological and organizational concepts, theories, and principles that are applicable to sport and athletic coaching. This course is designed to help the potential coach develop conceptual skills, managerial or administrative skills, and interpersonal or human skills. Class lectures are supplemented by analyses of coaching situations through observation and case studies.

P452 Motor Learning (3 cr.) P: Anatomy A215, Physiology P215, Psychology P101, or permission of instructor. Open to juniors and seniors only. An examination of factors which affect the acquisition and performance of motor skills. Topics include perception, psychomotor learning, practice methods, and theories of neuromuscular integration.

P490 Motor Development of Pre-School and Elementary School Children (3 cr.) A study of the motor development of children from infancy through middle childhood. Emphasis is placed on observing and analyzing characteristic movement behavior and motor performance of children with application to developmentally appropriate movement experiences.

P492 Laboratory Assisting or Field Experience in Sports Science (1-3 cr.) Student will assist in either an on-going or a new research project, or obtain some other field experience, under the guidance of a faculty sponsor. Only S-F grades given.

P493 Tests and Measurements in Physical Education (3 cr.) Theory of measurement in
physical education, selection and administration of appropriate tests, interpretation of their results by fundamental statistical procedures.

P494 Tools of Learning for Elementary School Children (3 cr.) Creative and playground equipment appropriate for teaching elementary school children. Techniques for integrating cognitive, affective, and psychomotor behavior through the use of this equipment.

P495 Laboratory Teaching in the Physical Education Program (1 cr.) Pre-practice teaching experience. Students assist and help teach activities in the Physical Education Program. Students must have had a course in the teaching of that activity before they are allowed to assist. Course may be repeated.

P497 Organizational and Curricular Structures of Physical Education K-12 (2 cr.) Techniques in organization and development of all grade curriculum in physical education. Development and implementation of extracurricular activities.

P498 Practicum in Physical Education and Athletics (1-3 cr.) A practical learning experience in teaching and/or coaching under guidance of faculty and supervisor.

P499 Research in Physical Education and Athletics (cr. arr.) This course is open to junior or senior majors or minors in physical education. Permission of chairperson of department is required.

P509 Intermediate Physiology of Exercise (3 cr.) Examination of physiological principles as they apply to exercise and training.

P510 Special Topics in Physical Education (1-3 cr.) Selected topics in Physical Education.

P527 Childhood Motor Development (3 cr.) Study of the developmental aspects of human performance. Designed to enhance understanding of the processes of growth and motor development from conception to adolescence. Research on cognitive, affective, and psychomotor development and their impact on the motor behavior of children is emphasized.

P530 Advanced Theories of High Level Performance (3 cr.) An integrative analysis of the physiological, psychological, and biomechanical principles, mechanisms, and phenomena underlying the acquisition of the capacities and abilities required for high level physical performance.

P533 Theory and Techniques of Dance for High School and College (3 cr.) For high school and college teachers. Theory and practical work; development of skills which make the body an instrument of expression.

P534 Problems of Teaching Rhythms in Elementary Grades (3 cr.) A course especially designed for elementary teachers and physical education teachers working with elementary children. Theory and practical approach in teaching dance movement.

P535 Developmental Movement for Children (3 cr.) Course focuses on a developmental approach to the physical education of children. Emphasis is placed on the impact of developmental movement experiences, curriculum development, teacher behavior, class management, play environments, and a variety of developmentally appropriate movement activities. Students participate in classroom instruction, group projects, and a variety of contemporary game, rhythm, and self-testing activities.

P536 Principles and Practices in Supervision of Physical Education in the Elementary School (3 cr.) Educational philosophies underlying modern physical education programs. Relationship of elementary physical education to the total curriculum. In-service programs to assist classroom teachers and specialists in planning games, rhythms, and self-testing techniques. Scheduling of indoor and outdoor facilities, blueprinting of gymnasium and playground areas, public relations programs.

P537 Adolescent Motor Development (3 cr.) Study of the developmental aspects of human performance. Designed to enhance understanding of the processes of growth and motor development throughout adolescence. Research on cognitive, affective, and psychomotor development and their impact on the motor behavior of the adolescent is emphasized.


P539 Facilities for Physical Education, Recreation, Health and Safety (3 cr.) Principles, terminology, standards for planning, construction, use, and maintenance of facilities for indicated programs; standard authoritative references studied and critically evaluated.

P543 Supervision in Physical Education (2 cr.) Principles, problems, procedures for administering a city physical education program from viewpoint of city director or school administrator.

P544 Administration of Physical Education (3 cr.) A course to prepare individuals to assume administrative roles in physical education. Concepts and practices related to
the administration of physical education. Procedures for developing and evaluating learning experiences. Aspects of administration pertaining to programming, personnel, facilities, equipment, supplies, safety, in-service programs.
P545 The Physical Education Curriculum
(3 cr.) Influences on curricula. Designs for developing, revising, and evaluating curricula in physical education. Alternative modes of curriculum organization. The interdependence of general education, specialized education, exploratory education, and enrichment education. The roles of teachers and administrators in the production of curricula. Suggested formats.
P546 Movement Performance of the
Exceptional Child (3 cr.) Study of characteristics of physically, mentally, and emotionally handicapped persons and their strengths and limitations in movement performance. Consideration is also given to assessing developmental levels and motor performance of handicapped individuals.
P547 Measurement and Evaluation in
Physical Education (3 cr.) Theory of measurement in physical education, selection and administration of appropriate tests, interpretation of results by statistical procedures. Project required to apply theory involved.
P548 The Nature and Basis of Motor Skill
P549 Organization of Physical Therapy
(2 cr.) Special fields of physical rehabilitation; use of exercise, massage, heat, water, electricity, various forms of radiation in public schools; some demonstrations.
P550 Motor Assessment of the Exceptional
Child (3 cr.) Neurologic bases and factor structures of motor ability in normal and in exceptional populations, movement problems associated with specific syndromes, assessment of movement development with structured and unstructured tests and check lists.
P556 Problems in Adapted Physical
Education (3 cr.) P: P546 or its equivalent. A study of problems as they relate to philosophy, procedures, and practices in adapted physical education.
P560 Introduction to Preventive/
Rehabilitative Exercise Programs (3 cr.) An overview of preventive and rehabilitative exercise programs, including: (1) types of programs, (2) scope and philosophies of programs, (3) program offerings. An introduction to (1) health/fitness evaluation, (2) exercise prescription, and (3) exercise leadership.
P561 Health/Fitness Assessment Laboratory
(3 cr.) Application of scientific principles and practices in health and fitness assessment with special emphasis on physiological mechanisms and interpretation.
P562 Exercise in Health and Disease (3 cr.)
The role of physical activity in the prevention and rehabilitation of atherosclerosis, chronic obstructive lung disease, diabetes, hypertension, hyperlipidemia, obesity, osteoporosis, end stage renal disease, and others. Health states such as aging and pregnancy will also be discussed.
P563 Cardiac Assessment in Exercise Testing
(3 cr.) The physiology, assessment techniques, and interpretation of (1) electrocardiography, (2) echocardiography, (3) nuclear cardiology, and (4) cardiac catheterization at rest and during exercise.
P564 Exercise Prescription (3 cr.)
Interpretation of health/fitness assessment for exercise prescription and the modification of the basis exercise prescription for aging populations, pregnancy, coronary heart disease, hypertension, hyperlipidemia, obesity, diabetes, chronic obstructive lung disease, end stage renal disease, and others.
P565 Exercise Leadership (3 cr.) Laboratory application of the techniques of leading groups and individuals in preventive and rehabilitative exercise programs. Incorporation of goal setting, problem solving, social support, and other methods of client/patient motivation. Modification of prescriptions for acute disease states, environment, and injury.
P566 Preventive/Rehabilitative Exercise
Program Administration (3 cr.) An overview of program structure, management, marketing, budget and finance for corporate fitness, preventive medicine, sports medicine, and hospital-based rehabilitation.
P567 Exercise Specialist Practicum (1-3 cr.)
The practice of exercise testing, exercise leadership, program administration, and research design in the Indiana University Adult Fitness Program and/or the National Institute for Fitness and Sport.
P570 Recreational Sports Administration
(3 cr.) The study of recreational sports (informal/intramural/extramural/club sports) relevant to historical developments, philosophical foundations, programming implications, administrative consideration, and creative activity.
P576 Advanced Physiology of Exercise (3 cr.)
P599 Master's Thesis (1-5 cr.)
P621 Women in Sport: Historical Perspectives (3 cr.) Study of the historical development of sports, changing roles and opportunities for women in sport, contemporary issues and trends.
P625 History of Sport in the United States (3 cr.) Study of the historical development of sport as an institution in American society: the rise of organized sport, factors affecting sporting developments, sport as an influence in society, sport in education.
P630 The Role of Sports in Society (3 cr.) Significance of sports in society; examination of relationships of sports to other elements of the culture; how sports contribute to human welfare in advanced technological society.
P635 Problems and Issues in Higher Education in Physical Education (3 cr.) Historical review; purposes of higher education at several levels and review of curricula emphasizes at each level; problems of selection, guidance, placement, facilities; retention of personnel; methods and policies in higher education; pertinent issues and trends.
P636 Quantitative Mechanical Analysis of Human Motion (3 cr.) Newtonian study of linear and angular kinematics and kinetics of the human body. Quantitative study of sequential link chains. Computation of joint forces and torques and of muscular forces.
P637 Study of Factors Affecting Human Performance (3 cr.) Study of human movement based on scientific foundations of human performance, including advanced kinesiological theories and neuromuscular integration.
P638 Biomechanics of Human Performance (3 cr.) P: P538 and Physics P201 or equivalent. Study of the mechanical principles of human motion through detailed analysis and specific movements. The general applicability of the principles is discussed. The course deals with forces, moments, stability, and linear and angular momentum.
P639 Psychological Aspects of Sports (3 cr.) Study of psychological factors affecting performance in sports; analysis of athlete behavior and training programs for high level performers.
P640 Independent Study and Research (cr. arr.) P: Graduate GPA of at least 3.0. Independent research conducted under guidance of a graduate faculty member.
P641 Readings in Physical Education (cr. arr.) P: Graduate GPA of at least 3.0. Guided readings for broadening information and understanding of the profession.
P642 Internships in Physical Education (2-8 cr.) P: Graduate GPA of at least 3.0. Off-campus professional field experience in school or agency situation under qualified supervision. Offered only after completion of course work for master's degree. Only S-F grades given.
P643 Practicum in Physical Education (cr. arr.) P: Graduate GPA of at least 3.0. Practical field experience under supervision and seminar discussions. Grading for this course should be on a pass-fail basis.
P646 Rehabilitation of the Physically Handicapped (3 cr.) Identification, analysis, and evaluation of physically handicapping conditions; rehabilitation procedures, including muscle testing, therapeutic exercise, massage, and relaxation.
P647 Seminar in Physical Education (1-3 cr.) Problems in physical education.
P648 Topics in Motor Integration (3 cr.) P: HPER P548. A discussion of current research concerns in motor integration.
P660 Exercise Specialist Internship (2-5 cr.) The supervised application of exercise testing, exercise prescription, exercise leadership, and program administration at selected corporate fitness, preventive medicine, or hospital-based rehabilitation internship sites.
P740 Research in Physical Education (cr. arr.) P: Graduate GPA of at least 3.0.
P741 Readings in Human Performance (2-5 cr.) P: Graduate GPA of at least 3.0. Advanced readings in one or more areas, including biomechanics, physiology of exercise, sports psychology (including motorlearning and control), encompassing domestic and foreign publications.
P742 Experimental Laboratory Techniques (2-5 cr.) Experimental investigation of problems in the area of human performance, including laboratory design and advanced research techniques.
P790 P.E.D. Dissertation (cr. arr.)
P799 Ph.D. Dissertation (cr. arr.)

Physical Education Elective Program
E100 Experiences in Physical Education (1-2 cr.) Instruction in a specified physical
education activity that is not a regular offering of the Department of Physical Education. Emphasis on development of skill and knowledge pertinent to the activity.

**E102 Aerobic Dance (1 cr.)** Course is a total fitness class which emphasizes cardiorespiratory conditioning, flexibility, muscular endurance, and coordination through rhythmic body movement. Only S-F grades given.

**E103 Archery (1 cr.)** Instruction in archery skills, including care and construction of tackle. Instruction follows guidelines of the Outdoor Education Project of AAPH. Emphasis on fundamental skills and shooting form.

**E105 Badminton (1 cr.)** Beginning instruction in basic skills and techniques of badminton for singles, doubles, and mixed doubles play. Emphasis on basic skill development, rules, and strategy.

**E107 Bait and Fly Casting (1 cr.)** Instruction in bait casting, spin casting, spinning and fly casting. All phases of angling, from knot tying to fish identification, are included. Recreational aspects are emphasized. Field trips included.

**E109 Ballroom and Social Dance (1 cr.)** Instruction in the techniques of ballroom dance, including fox trot, waltz, cha-cha, tango, rhumba, samba, and fad dances. Only S-F grades given.

**E111 Basketball (1 cr.)** Instruction in fundamental skills of shooting, passing, ball handling, footwork, basic strategies of offensive and defensive play, and interpretation of rules.

**E113 Billiards (1 cr.)** Instruction in basic skills, including bridge forming, stroke techniques, bank shots, and cue ball spin. Fee charged.

**E117 Bowling (1 cr.)** Beginning instruction in the fundamentals of approach, release, arm swing, methods of scoring, rules and etiquette on the lanes. Explanation of lane condition, lane condition, and automatic machines. Fee charged.

**E119 Conditioning (1-2 cr.)** Instruction in basic principles of conditioning and fitness. Emphasis on muscular strength, muscular endurance, flexibility, and cardiorespiratory endurance. Designed for students without prior knowledge of conditioning methods.

**E121 Conditioning and Weight Training (1 cr.)** Instruction in basic principles of conditioning and weight training. Emphasis on muscular strength, muscular endurance, flexibility, and cardiorespiratory endurance. Only S-F grades given.

**E123 Diving (1 cr.)** Instruction in fundamental dives, including approach, takeoff, execution of the dive, and entry into the water. Emphasis on basic forward, backward, reverse, and twisting somersaults. Course designed for all levels regardless of past diving experience.

**E127 Fencing (1 cr.)** Instruction in guard position, footwork, basic defensive and offensive skills. Emphasis on fencing with “foil” and an overview of the saber and épée.

**E131 Folk and Square Dance (1 cr.)** Introduction to folk dance in the United States and other countries of the world. Instruction in fundamentals of movement, basic folk dance techniques, and square dance patterns in traditional and modern folk and square dances.

**E133 Fitness and Jogging (1 cr.)** Beginning instruction in the basic principles of fitness as they apply to a jogging program. Emphasis on cardiorespiratory endurance and flexibility. Basic concepts underlying Dr. Kenneth Cooper’s aerobic program included. Course designed for students without prior experience in jogging programs. Aerobics levels I through III. Only S-F grades given.

**E135 Golf (1 cr.)** Beginning instruction in techniques for putting, chipping, pitching, iron swing, and wood strokes. Course includes rules and etiquette of golf. Students play on par 3 courses. Fee charged.

**E137 Gymnastics (1 cr.)** Beginning instruction in basic skills and incorporation of basic routines in trampoline, tumbling, and vaulting. Emphasis on events performed by both men and women. All events will be included.

**E139 Handball (1 cr.)** Instruction in basic skills for beginning players. Includes both four-wall singles and doubles games.

**E147 Hapkido (1 cr.)** Instruction in techniques for throwing, blocking, striking, kicking, and self-defense applications of joint locks. Students should achieve technical skill level of yellow belt. Judo uniform required.

**E149 Judo (1 cr.)** Beginning instruction in techniques for throwing, grappling skills, and limited self-defense. Students should achieve technical skill level of yellow belt. Judo uniform required.

**E150 Karate (1 cr.)** Beginning instruction in techniques of blocking, kicking, striking, punching, limited free fighting, and self-defense. Students should achieve technical level of yellow belt. Karate uniform required.

**E151 Self-Defense (1 cr.)** Instruction in techniques for practical self-defense skills and situations. No uniform required.
E155 Modern Dance (1 cr.) Beginning instruction in modern dance technique, stressing knowledge and application of movement principles essential to dance training.
E159 Racquetball (1 cr.) Instruction in basic skills for beginning players. Includes both four-wall singles and doubles games.
E161 Rifle (1 cr.) Instruction in firearm safety and rifle marksmanship. Emphasis on skill development in safe and efficient use of smallbore target rifles. Students may qualify for collegiate marksmanship ratings. Fee charged.
E164 Sailing (1 cr.) Beginning instruction in the principles of sailing. Rigging, proper sailing technique, and other features of small craft sailing will be discussed. Only S-F grades given.
E165 Soccer (1 cr.) Instruction in fundamental techniques, rules, basic team tactics, and strategies. Emphasis on competitive game scrimmages and fundamental drills.
E167 Squash Racquets (1 cr.) Instruction in basic skills and game rules. Emphasis on both four-wall singles and doubles games.
E168 Swimming—Non-Swimmers (1 cr.) Beginning instruction in self-rescue remedial swimming skills, and several basic strokes. For the student with no swimming skills.
E181 Tennis (1 cr.) Beginning instruction in the fundamental skills of forehand and backhand strokes and serves. Competitive play in women’s, men’s, and mixed doubles.
E183 Trap and Skeet (1 cr.) Instruction in firearm safety and shotgun marksmanship. Emphasis on skill development in safe and efficient use of shotguns. Games of skeet and trap are included. Students encouraged to shoot for NRA qualifications. Fee charged.
E185 Volleyball (1 cr.) Instruction in fundamental skills of power volleyball. Emphasis on overhand serve, bump, set, dig, and spike. Team offensive and defensive strategies included.
E186 Wall Volleyball (1 cr.) Instruction in fundamental skills of wall volleyball. Emphasis on serve, set (with and without wall), bump, dig, and spike. Team offensive and defensive strategies included.
E187 Weight Training (1 cr.) Instruction in basic principles and techniques of conditioning through use of free weights. Emphasis on personalized conditioning programs. Only S-F grades given.
E219 Weight Loss and Exercise (2 cr.) Designed for overweight students, this class will stress the importance of diet and exercise in permanent weight control. It will utilize dietary behavior modification techniques in addition to an exercise program to achieve a gradual reduction and maintenance of ideal weight. Only S-F grades given.
E227 Intermediate Fencing (1 cr.) This course will present advanced techniques in the use of the foil, as well as introduce and provide instruction in the use of the sabre and the épée.
E235 Golf—Intermediate (1 cr.) Instruction in the use of the full iron and wood swing. Emphasis on special golf shots, including: sand shots, shots from rough, hill lies, playing from hazards and different type greens. Students play on par 3 course. Fee charged.
E237 Gymnastics—Intermediate (1 cr.) Instruction in all events, including floor exercise, vaulting, trampoline, balance beam, parallel bars, uneven bars, rings, pommel horse, horizontal bar. Emphasis on individual routines.
E247 Intermediate Hapkido (1 cr.) Designed to give students an increased understanding and an appreciation of the art of hapkido. Content emphasis involves advanced applications of basic hapkido techniques and self defense. Students should achieve the technical level of a green belt in hapkido.
E250 Karate—Intermediate (1 cr.) P: yellow belt technical level or permission of instructor. Instruction in advanced applications of basic techniques and free fighting. Students should achieve technical level of green belt. Karate uniform required.
E255 Modern Dance—Intermediate (1 cr.) P: E155 or permission of instructor. Intermediate modern dance technique, stressing knowledge and application of movement principles essential to dance training.
E257 Modern Dance for Theatre and Drama Majors (1 cr.) An introduction to basic principles of body alignment, centering, and movement specifically designed for the actor. Techniques for integrating voice and movement are explored. Open only to theatre and drama majors.
E268 Swimming—Intermediate (1 cr.) Instruction designed to help the less-skilled swimmer master the five basic strokes, be proficient in self-rescue and basic rescue skills.
E270 Scuba (1 cr.) Introduction to scuba diving. Emphasis on safety and avoidance of potential dangers. A non-certification course.
E271 Swimming—Synchronized (1 cr.) P: intermediate swimming skills. Instruction in basic strokes, sculls, and beginning stunts. Emphasis on creative composition.
E275 Aquatic Conditioning (1 cr.) Course designed for highly skilled swimmer interested in training methods that may be used by noncompetitive swimmers.
E276 Water Polo (1 cr.) Course designed for highly skilled swimmer interested in learning complex aquatic skills while developing endurance. Emphasis on rules and strategies of water polo and other water games.
E277 Introduction to Rowing (Sculling) (1 cr.) Beginning instruction in the principles of singles sculling. Rigging, boat care, safety, and other features of sculls and sweeps will be discussed. Only S-F grades given.
E281 Tennis—Intermediate (1 cr.) Instruction in spin serve, volley, lob, and advanced drive placement. Emphasis on singles and doubles playing strategies.
E335 Golf—Advanced (1 cr.) P: permission of instructor or USGA 18-handicap of 18 or less. Individual instruction in error analysis and correction for all golf strokes. Instruction in playing strategies on the course, rules for competitive stroke play, and club selection for special shots. Fee charged.
E335 Modern Dance I Advanced (1 cr.) P: E255 or permission of instructor. Advanced techniques in modern dance with emphasis on performance of movement patterns and individual creative work.
E335 Modern Dance II Advanced (1 cr.) P: E335. Course may be repeated. Continuation of advanced techniques in modern dance with emphasis on performance of movement patterns and individual creative work.
E339 Advanced Racquetball (1 cr.) Course concentrates on advanced skills, techniques, and strategy of the game. Emphasis on drills to improve strokes and match play to improve strategy. Students should achieve skill levels of the tournament competitor through match preparation and game situation practice conditions. Only S-F grades given.
E370 Scuba Certification (1 cr.) P: E270 or permission of instructor. Course is designed to take the student from the introductory level (E270) through the open water lectures, test, and dives to open water certification. Fee charged. Only S-F grades given.
E371 Advanced Scuba (1 cr.) P: E370 or national scuba certification. Course provides students with practical knowledge in advanced scuba. Topics include natural and compass navigation, search and recovery, night or limited visibility, specialty and deep diving knowledge.
E377 Advanced Life Saving (1 cr.) P: entrance test required. Instruction in the Advanced Life Saving Program of the American Red Cross designed to qualify the student for the American Red Cross Advanced Life Saving Certification.
E470 Advanced Scuba Theory (2 cr.) This course concentrates on advanced aspects of diving physiology; especially decompression sickness with its known and theoretical problems. In addition, the use of recompression chambers and treatment procedures as well as dive tables for air and mixed gasses will be included.
E471 Underwater Exploration (1 cr.) P: E370 or national scuba certification. Theory and evolution of underwater exploration. Topics include historical wreck sites of the Great Lakes, Coastal Americas, and Caribbean with emphasis on classification, preservation, and legislation concerning these non-renewable resources. Optional field exercise available with permission of instructor.
E475 Lifeguard Certification (1 cr.) Current certification by ARC in standard first aid and personal safety, CPR, and advanced lifesaving. Instruction will prepare individuals to assume more effectively the duties and responsibilities of lifeguarding at pools and at protected open water beaches.
E477 Water Safety Instructor (1 cr.) P: current ANRC Advanced Life Saving Certificate. Courses prescribed by the American Red Cross. Satisfactory completion of the requirements qualifies the student to teach swimming through the Advanced Life Saving Level and Part I of American Red Cross Water Safety program.

Recreation and Park Administration
R100 Recreation Leadership Skills (1 cr.) Short courses designed to provide students with skills and teaching techniques necessary to function as leaders in recreation and parks. May be repeated for credit if topic differs. Only S-F grades given.
R160 Recreation and Leisure (3 cr.) An introduction to the field of recreation and leisure from the viewpoint of the individual as a consumer and of societal agencies as providers of leisure services. Includes philosophy, history, theory, and a survey of public and private leisure-service organizations.
R266 Management of Park and Recreation Facilities I (3 cr.) P: R160. Introduction to the
principles and practices of operating park and recreation systems, with an emphasis on management of playgrounds, golf courses, swimming pools, sports centers, tennis centers, and community centers.

R267 Management of Park and Recreation Facilities II (3 cr.) Principles and practices of managing ice rinks, playgrounds, marinas and beaches, and golf courses.

R270 Special Recreation Services (3 cr.) Understanding the need for the provision of leisure services to special populations, including concepts and terminology resources, adaptations of programs and facilities, and gaining an awareness of needs and abilities of persons who have disabilities or handicapping conditions.

R271 Dynamics of Outdoor Recreation (3 cr.) P: R160. Philosophical orientation to the field of outdoor recreation; camping, outdoor education, and natural resource management, with emphasis on programs, trends, resources, and values.

R272 Recreation Activities and Leadership Methods (3 cr.) P: R160. Analysis of recreation program activities, objectives, determinants, and group dynamics involved in the leadership process. Identification and evaluation of equipment, supplies and leadership techniques are included.

R275 Dynamics of Camp Leadership (2 cr.) Investigation of the skills, resources, knowledge, and values of the organized camp movement. Camper behavior and development, leadership techniques, program skills, and health and safety are central topics.

R277 Introduction to Therapeutic Recreation (3 cr.) P: R160. Theoretical, philosophical, and historic foundation of therapeutic recreation; role of the treatment and rehabilitation with a survey of major services and settings.

R279 Camping and Outdoor Recreation Leadership (3 cr.) Examines the role of the leader in camping and outdoor recreation settings. Focuses on counseling and leadership techniques, with direct involvement in outdoor recreation experience.

R280 Nature Study (3 cr.) Course is designed to expose students to the plants and animals of southern Indiana. Included are a consideration of the classification system, work with field guides (including mastery of terminology necessary for successful use of field guides), and consideration of representative questions about interaction among plants and animals.

R281 Landscape Horticulture (3 cr.) Course is designed to provide basic information and skills that are fundamental in managing horticultural resources. Emphasis is placed on plants and the circumstances under which they grow well. Basic body of information about plant growth, reproduction, and propagation techniques in the greenhouse and outdoor setting is included.

R317 Seminar in Recreation and Parks (1-3 cr.) Park and recreation current issues seminar. Topic varies with the instructor and year. Consult the Schedule of Classes for current information. May be repeated for credit if topic differs.

R324 Recreational Sports Programming (3 cr.) Overview of programmatic elements and techniques in recreational sports. Topics include informal, intramural, club, and extramural programming; values of recreational sports, programming techniques, publicity and promotion, facility utilization, equipment, safety, liability, and program observation.

R331 Leisure Education (3 cr.) Examination of a process through which individuals develop an understanding of leisure and its relationship to life styles and the fabric of society.

R333 Camping for Special Populations (3 cr.) Understanding the nature and function of organized camping involving handicapped persons. Emphasis is upon camp staff positions, camp operations, and the camp's role in rehabilitation.

R336 Tourism and Commercial Recreation (3 cr.) Analysis of private, commercial, and industrial recreation fields, focusing on economic impact, marketing strategies, consumer protection, and career opportunities.

R337 Computer Applications in Parks and Recreation (3 cr.) An introduction to uses of computers in park and recreation services. Terminology, BASIC language, retrieval and reference systems, and management applications. Emphasis is on mini-computers.

R338 Recreation Resource Management (3 cr.) An understanding of the ecological concepts, practices, and resource policies of parks and recreation services. Focus upon allocations, carrying capacity, preservation and environmental impact, dispersed and intensive recreation use.

R340 Leisure in Modern Society (3 cr.) P: R160-R272. Encourages a holistic and comprehensive understanding of the significance of leisure to the individual and society. Exposes students to the relationship between leisure and other disciplines such as psychology, sociology, health, economics, political science, and education.
R367 Leisure Program Development (3 cr.) P: R272. Learning and applying the recreation program process for leisure delivery systems. Interest and needs, assessment tools, and developmental stages of people in relation to recreation activity are major units of the course.

R372 Interpretive Resources and Techniques (3 cr.) P: R271. Refinement of leadership competencies and techniques in interpreting natural and cultural resources required of conservationists, teachers, and other leaders responsible for such interpretation.

R378 Techniques in Therapeutic Recreation (3 cr.) P: R277. Emphasis on leadership and intervention techniques with methods of assessment of client needs, activity analysis, and therapeutic use of recreation activity.

R381 Introduction to Armed Forces Recreation (3 cr.) Introduction to the processes and programs used by the U.S. Armed Forces to provide recreation services to members of the military community.

R399 Practicum in Parks and Recreation (cr. arr.) Practical field experience under faculty supervision and with seminar discussions. Only S-F grades given.

R422 Economics and Marketing for Leisure Services (3 cr.) Application of economic and marketing principles to leisure service delivery systems, including the procedures for developing marketing plans for recreation agencies. Emphasis placed on organizing and analyzing the marketing process and planning the marketing mix, including product, price, place, and promotion. Designed for recreation majors with limited background in economics and marketing.

R466 Management of Leisure Services (3 cr.) P: R367. An introduction to managing personnel and administering leisure services, including legal foundations, finance and budgeting, personnel management, and public relations.

R468 Planning Park and Recreation Facilities (3 cr.) P: R272 or permission of instructor. Analysis of the park planning process including surveys, data compilation, site design, and master planning. Emphasis is upon practical design procedures, including considerations for use by the handicapped.

R471 Recreational Sports Personnel (3 cr.) Techniques of recreational sports personnel management in systematically controlling recreational sports programs.

R472 Recreational Sports Management (3 cr.) Exploration of the basic competencies that pertain to general composite functions that contribute to the effective and efficient delivery of recreational sports programs.

R479 Trends and Issues in Therapeutic Recreation (3 cr.) P: R367. Working through the problems confronting the therapeutic recreator in the transition period between traditional medical practice and comprehensive health care for all people.

R482 Trends and Issues in Armed Forces Recreation (3 cr.) Provides in-depth examination of problems and issues of importance to students considering employment in Armed Forces Morale, Welfare, and Recreation (MWR).

R490 Research and Evaluation (3 cr.) Methods and techniques of research and evaluation as applied to recreation and park services.

R499 Research in Recreation (cr. arr.) Undergraduate independent research and study under the guidance of a faculty member.

R500 Philosophy of Leisure and Recreation (3 cr.) Exploration of philosophical foundations for recreation in a dynamic society; challenge of increased leisure and role of recreation in present and predicted environments.

R515 Special Concerns in Parks and Recreation (cr. arr.) Current issues in a variety of park and recreation settings. Topics vary with instructor and year. Consult the Schedule of Classes for current information. May be repeated for credit if topic differs.

R520 Administration of Recreation and Parks (3 cr.) Organization and administration of recreation on federal, state, local levels; legislative provisions, government control, financing, budget, personnel, departmental organization, administrative practices, especially on local level.

R521 Computer Systems in Recreation and Park Administration (3 cr.) Introduces students to computer uses in the recreation and park field. Emphasis is on skills and knowledge necessary to communicate with programmers and analysts about the administrator's concerns.

R522 Economics and Marketing for Leisure Services (3 cr.) Application of economic and marketing principles to leisure service delivery systems and the analysis of institutional factors affecting the allocation of resources for recreational purposes. Designed for recreation majors with limited background in economics and marketing.

R530 Comprehensive Recreation Planning/ Park Design (3 cr.) An interdisciplinary course developed by the Department of Recreation and Park Administration and the Landscape Architecture Department at Ball State University, utilizing the Indiana Higher
Education Telecommunications System. Covers historical foundations, philosophical concepts, and procedures for community comprehensive recreation planning and park site design.

R531 Applied Techniques in Recreation Planning/Park Design (2 cr.) P: R530. An application of techniques and principles from HPER R530 in developing a comprehensive recreation plan and in evaluating a parksite design.

R535 Great Lakes Park Training Institute (1 cr.) Practicum training in the management of a continuing education institute for park and recreation administrators, supervisors, and technicians. Only S-F grades given.

R539 Master's Project in Administration (1 cr.) Compilation of Masters' projects that would integrate various elements of administration from required courses in the park and recreation administration option.

R540 Policy Studies in Outdoor Recreation/Environmental Management (3 cr.) A critical analysis of the historic development, current status, and changing patterns of public policy in outdoor recreation and related environmental management in the United States. Intensive examination of selected public policy issues (including those affecting the private/commercial sector) through small group seminars and individual research.

R541 Camping Administration (3 cr.) Organization and administration of camps; program planning, selection and training of staff; camp site selection, and development; health and safety.

R542 Foundations of Outdoor/Environmental Education (3 cr.) Examination of the meaning, scope, and values of outdoor/environmental education. Emphasis placed on the historical and philosophical foundations of outdoor education. Evolution of the outdoor education movement in American public education will be traced as well as recent significant trends and existing outdoor environmental education programs.

R543 Principles of Outdoor/Environmental Education (3 cr.) Course designed to bridge the gap between scientific orientation of many outdoor education programs, the curricular orientation of others, and the recreational/survival orientation of still others. An interdisciplinary approach will be adhered to and correlation of outdoor techniques to existent curricular or skill oriented programs will be stressed.

R561 Advanced Therapeutic Recreation Processes (3 cr.) Techniques, approaches, procedures, and practices in the provision of therapeutic recreation service.

R562 Social Psychology of Therapeutic Recreation (3 cr.) A structured preview of the social psychology of therapeutic recreation service. Emphasis on social and organizational behaviors relevant to therapeutic recreation.

R563 Program Development and Consultation in Therapeutic Recreation (3 cr.) Concerns in developing and providing therapeutic recreational programs and consultation.

R565 Recreation for Later Maturity (2 cr.) Investigation of psychological, sociological, and physical characteristics of aging populations; exploration of services for the aging, analysis of problems related to leisure and recreation.

R570 Recreational Sports Administration (3 cr.) The study of recreational sports (informal/intramural/extramural/club sports) relevant to historical developments, philosophical foundations, programming implications, administrative considerations, and creative activity.

R571 Dynamics of Recreational Sports Environment (3 cr.) Study of the interaction of the participant in the recreational sports environment as it relates to the individual's self-awareness, social awareness, and physical awareness. Content will also include a study, through case analysis, of specific issues and concerns surrounding human behavior in the recreational sports environment.

R572 Seminar in Recreational Sports (2 cr.) This seminar focuses on the experiences which relate directly to the basic programmatic and administrative aspects of recreational sports. It is divided into two components: informal seminar sessions and a creative activity project.

R580 Administration of College Unions (3 cr.) Organization and administration of the college union as well as examination of its role in higher education.

R599 Master's Thesis in Recreation and Park Administration (5 cr.)

R640 Independent Study and Research (cr. arr.) P: Graduate GPA of at least 3.0. Independent research conducted under guidance of graduate faculty member.
R641 Readings in Recreation (cr. arr.) P: Graduate GPA of at least 3.0. Guided readings for broadening information and understanding of the profession. Restricted to advanced master's and director's candidates.

R642 Internships in Recreation and Parks (2-8 cr.) Off-campus professional field experience in superior agencies under qualified supervision. Offered only after completion of course work for master's degree. Only S-F grades given.

R643 Practicum in Recreation and Parks (cr. arr.) Practical field experience under supervision and seminar discussions. Only S-F grades given.

R667 Seminar in Recreation (1-3 cr.)

R700 Professional Recreation Education (3 cr.) Investigation of concerns which relate to professional preparation in parks and recreation. For doctoral students or consent of instructor.

R701 Social Psychology of Leisure (3 cr.) P: RS500 or consent of instructor. The purpose of this course is to gain an understanding of the application of social psychology to one important aspect of our lives—leisure behavior.

R702 Current Issues in Recreation (2 cr.) Seminar on current issues in parks and recreation. For advanced graduate students only.

R703 Inquiry Methodology in Leisure Behavior (3 cr.) An in-depth study of the realm of research in leisure behavior. Material is directed toward conceptual and methodological issues involved in problem formulation and application of appropriate designs.

R704 Doctoral Seminar: Leisure Behavior (3 cr.) A doctoral seminar in which issues in leisure behavior are examined in a systematic and comprehensive way. Leisure behavior is examined from a multi-disciplinary perspective. Students working in teams will conduct research on questions of leisure behavior.

R740 Advanced Research in Recreation (cr. arr.) P: Graduate GPA of at least 3.0. In-depth research by directorate or doctoral candidate.

R741 Advanced Readings in Recreation (cr. arr.) P: Graduate GPA of at least 3.0. Guided readings for broadening information and understanding of the profession.

R790 Re.D. Dissertation (cr. arr.)

R799 Ph.D. Dissertation (cr. arr.)

Interdepartmental and Technical Courses

T470 Special Topics in Health, Physical Education, and Recreation (1-3 cr.) Topics will vary from semester to semester but will be broad subjects which cut across fields of study represented in the school. Consult the Schedule of Classes for current information. May be repeated for credit if topic differs.

T490 Honors Seminar in Health, Physical Education, and Recreation (2 cr.) Analysis of current social problems pertinent to the responsibilities of the health, physical education, and recreation professions. An honors seminar which is open to superior students at junior and senior levels. Admission by invitation only. Only S-F grades given.

T500 Current Interdisciplinary Topics (1-3 cr.) A flexible format course designed to facilitate the cooperation of two or more departments in presenting an interdisciplinary approach to the study of important topics of current mutual interest.

T590 Introduction to Research in Health, Physical Education, and Recreation (3 cr.) Methods and techniques of research; potential and completed problems analyzed with view to selection of topics; standards for writing research papers.

T591 Interpretation of Data in Health, Physical Education, and Recreation (3 cr.) Elementary and essential statistical and graphical techniques for analysis and interpretation of data; practice upon actual data.

T592 Statistical Techniques of Research in Health, Physical Education, and Recreation (3 cr.) Theory of advanced statistical techniques; practical applications with actual data.

T593 Public Relations (3 cr.) Principles of public relations, human relations, identification and analysis of publics, problem-solving, and techniques in communication media.

T594 Finance and Budgeting (3 cr.) Trends in finance, budgetary procedures, management of funds, cost analysis, purchasing, and property control; leases and contractual agreements and other management concerns.

T595 Construction and Analysis of Achievement Tests in Health, Physical Education, and Recreation (3 cr.) Principles of construction, selection, interpretation of written achievement tests in health and safety, physical education and recreation, and other evaluative procedures; analysis of standardized tests. Project required to apply principles involved.
T599 Master's Thesis in Health, Physical Education, or Recreation (cr. arr.)
T691 Correlational Techniques (3 cr.) P: HPER T592. An introduction to linear regression and correlation, other measures of relationship, and multiple regression and correlation. Application of these techniques in measurement and research. Analysis of covariance.
T693 Experimental Analysis and Design (3 cr.) P: T592 with a grade of B or better. Procedures and principles of experimental research; design, application of statistical techniques, analysis and interpretation of results, assumptions basic to techniques.
T699 Director's Thesis in Health, Physical Education, and Recreation (cr. arr.)

Education Courses
Education M363 Professional Field Work in Recreation (1-15 cr.)
Education M456 Methods of Teaching Physical Education (3 cr.)
Education M458 Methods of Teaching Health and Safety (3 cr.)
Education M480 Student Teaching in the High School (5 to 9 cr.)
Faculty of the School of Health, Physical Education, and Recreation, 1987-88

Emeritus

Aldrich, Anita, Professor Emeritus of Physical Education, and Professor Emeritus of Education
Andres, Ernest H., Jr., Assistant Professor Emeritus of Physical Education
Brennan, William T., Associate Professor Emeritus of Health and Safety Education
Brogneaux, John P., Assistant Professor Emeritus of Physical Education, and Assistant Professor Emeritus of Education
Bruce, Ben F., Jr., Associate Professor Emeritus of Physical Education
Carlson, Reynold E., Professor Emeritus of Recreation
Cooper, John M., Professor Emeritus of Physical Education
Cousins, George F., Professor Emeritus of Physical Education
Davies, Evelyn A., Professor Emeritus of Physical Education
Deppe, Theodore R., Professor Emeritus of Recreation and Park Administration
Endwright, John R., Professor Emeritus of Physical Education
Epley, Garrett G., Professor Emeritus of Recreation and Park Administration
Fox, Jane, Associate Professor Emeritus of Physical Education
Hicks, Robert B., Instructor Emeritus of Physical Education
Hope, S. Margaret, Assistant Professor Emeritus of Physical Education
Loft, Bernard J., Professor Emeritus of Health and Safety Education
Ludwig, Donald J., Professor Emeritus of Health and Safety Education
MacLean, Janet R., Professor Emeritus of Recreation and Park Administration
Macleay, Janet E., Associate Professor Emeritus of Physical Education
Newberg, Sam, Assistant Professor Emeritus of Physical Education
Ryzer, Otto E., Professor Emeritus of Physical Education
Slater-Hammel, Arthur T., Professor Emeritus of Physical Education
Summers, D. Dean, Associate Professor Emeritus of Physical Education

Faculty

Anderson, Stephen C., Ph.D. (University of Maryland, 1976), Associate Professor of Recreation and Park Administration
Arnson, Sarah J., M.S. (Indiana University, 1987), Coordinator, Intramural Sports
Austin, David R., Ph.D. (University of Illinois, 1973), Professor of Recreation and Park Administration
Bailey, William James, M.P.H. (Indiana University, 1979), Research Associate and Coordinator of Risk Reduction Program, and Lecturer Part-time in Applied Health Science
Bayless, Kathryn George, M.S. (Indiana University, 1974), Associate Director of the Division of Recreational Sports, and Lecturer Part-time in Recreation and Park Administration
Beeker, Charles D., B.A. (Indiana University, 1975), Lecturer Part-time in Physical Education
Behman, Eric L., M.S. (Indiana University, 1982), Adjunct Lecturer in Recreation and Park Administration
Belisle, James J., P.E.D. (Indiana University, 1960), Director of Student Services and Assistant Dean of the School of Health, Physical Education, and Recreation, and Associate Professor of Physical Education
Bell, Sam, B.S. (University of Oregon, 1957), Head Track Coach, and Assistant Professor of Physical Education
Billingham, Robert E., Ph.D. (Virginia Polytechnic Institute and State University, 1979), Assistant Professor of Applied Health Science
Billingisley, Hobart S., M.S. (University of Washington, 1953), Assistant Swimming Coach, and Associate Professor of Physical Education
Brantley, Herbert, Ph.D. (University of North Carolina, 1966), Chairperson of Recreation and Park Administration, and Professor of Recreation and Park Administration
Brown, James R., Ed.D. (Indiana University, 1973), Associate Professor of Physical Education
Burns, Donald J., M.S. (Indiana University, 1972), Associate Professor of Physical Education
Burrus, Sandra K., Ph.D. (The University of Michigan, 1974), Director for Academic Support, and Associate Professor of Physical Education
Carlson, Ronald P., P.E.D. (Indiana University, 1971), Associate Professor of Physical Education, and Associate Professor of Education
Case, Robert W., Ph.D. (The Ohio State University, 1980), Associate Professor of Physical Education
Clay, L. Jane, M.A. (Indiana University, 1973), Director of Hilltop Gardens, and Lecturer Part-time in Recreation and Park Administration

Cleland, Frances E., M.S. (Indiana University, 1985), Visiting Lecturer in Physical Education

Counsilman, James E., Ph.D. (University of Iowa, 1951), Swimming Coach, and Professor of Physical Education

Crowe, James W., Ed.D. (Indiana University, 1979), Associate Professor of Applied Health Science

Cummins-Schaefer, Margaret Adaline, M.S. (Smith College, 1968), Instructor Part-time of Physical Education

Dapena, Jesús, Ph.D. (University of Iowa, 1979), Associate Professor of Physical Education

Ellis, Nancy T., H.S.D. (Indiana University, 1979), Visiting Associate Professor of Applied Health Science

Engs, Ruth L.C., Ed.D. (University of Tennessee, 1973), Associate Professor of Applied Health Science

Evans, J. William, M.S. (University of Utah, 1970), Associate Professor of Physical Education

Fitch, Robert E., P.E.D. (Indiana University, 1954), Golf Coach, and Manager of the Golf Course, and Assistant Professor of Physical Education

Fox, Lucinda Gant, M.S. (Northern Illinois University, 1973), Lecturer in Physical Education

Gallahue, David L., Ed.D. (Temple University, 1970), Professor of Physical Education

Gral, Ten C., M.A. (University of Mississippi, 1979), Athletic Trainer, and Instructor Part-time of Physical Education

Getchell, Leroy H., Ph.D. (University of Illinois, 1965), Executive Director of the National Institute of Fitness and Sport, and Professor of Physical Education

Greer, H. Scott, Ed.D. (Columbia University, 1969), Associate Professor of Physical Education

Hamm, Gwendolyn Ann, M.S. (Indiana University, 1972), Associate Professor of Physical Education

Hammel, Kendal R., B.A. (Anderson College, 1978), Head Tennis Pro and Coordinator of Operations, IU Tennis Pavilion

Harty, Robert A., M.A. (Oregon State University, 1987), Acting Coordinator, Intramural Sports

Haven, Betty H., P.E.D. (Indiana University, 1977), Assistant Professor Part-time of Physical Education

Hawkins, Barbara A., Re.D. (Indiana University, 1979), Research Associate in the Institute for the Study of Developmental Disabilities, and Assistant Professor Part-time of Recreation and Park Administration

Henningson, Kathryn A., Ph.D. (Southern Illinois University, 1984), Assistant Professor of Applied Health Science

Henson, Philip L., Ph.D. (Indiana University, 1976), Assistant Track Coach, and Assistant Professor Part-time of Physical Education

Humphrey, James Lee, M.A. (The Ohio State University, 1974), Head Coach, Wrestling, and Lecturer in Physical Education Part-time

Jastremski, Chester A., M.D. (Indiana University, 1968), Research Associate in Physical Education

Johnson, Norma Jean, Ph.D. (University of Iowa, 1968), Associate Professor of Physical Education

Jordan, Debra J., M.S. (Western Illinois University, 1983), Visiting Lecturer in Recreation and Park Administration

Kamen, Gary, Ph.D. (University of Massachusetts, 1979), Associate Professor of Physical Education

King, Amy E., M.S. (Indiana University, 1986), Acting Coordinator, IU Fit

Knight, Robert M., B.S. (The Ohio State University, 1962), Head Basketball Coach, and Professor of Physical Education

Lacourse, Michael G., M.S. (Indiana University, 1983), Visiting Lecturer of Physical Education

Lawrence, Robert E., M.S. (Indiana University, 1968), Instructor of Physical Education

Lawson, Richard W., Re.D. (Indiana University, 1970), Associate Professor of Recreation and Park Administration

Lecius, Peter M. (Indiana University, 1982), Athletic Trainer, and Lecturer in Physical Education Part-time

Lindeman, Alice K., Ph.D. (Syracuse University, 1986), Assistant Professor of Applied Health Science

Locke, Taylor O., B.S. (Ohio Wesleyan University, 1957), Assistant Basketball Coach Part-time, and Lecturer Part-time in Physical Education

Lucas, John M., B.M. (Indiana University, 1963), Assistant Professor in Physical Education

Lukas, Dawn M., M.S. (Purdue University, 1975), Lecturer Part-time in Applied Health Science

Martin, W. Donald, Ph.D. (Michigan State University, 1972), Associate Professor of Recreation and Park Administration

Meyer, Martin W., Ed.D. (New York University, 1955), Adjunct Associate Professor of Recreation and Park Administration

Miller, John M., M.D. (University of Iowa, 1953), University Physician, and Professor of Physical Education
Schrader, John W., M.A. (University of Washington, 1975), Athletic Trainer for Intercollegiate Athletics, and Assistant Professor Part-time of Physical Education

Seffrin, John R., Ph.D. (Purdue University, 1970), Chairperson, and Professor of Applied Health Science

Sharpless, Daniel R., Re.Dir. (Indiana University, 1970), Lecturer Part-time of Recreation and Park Administration

Sherwin, Hilda A., M.Ed. (Women’s College of the University of North Carolina, 1953), Assistant Professor of Physical Education

Shier, Nathan W., Ph.D. (Michigan State University, 1975), Associate Professor of Applied Health Science

Smith, W. Kip, M.Ed. (University of Arizona, 1974), Athletic Trainer, and Lecturer in Physical Education Part-time

Snygg, Fran, M.F.A. (New York University School of Arts, 1971), Associate Professor of Physical Education, and Associate Dean of Faculties

Stager, Joel M., Ph.D. (Indiana University, 1980), Assistant Professor of Physical Education

Strong, Clinton H., Ph.D. (University of Iowa, 1961), Coordinator of Continuing Education, and Professor of Physical Education

Surburg, Paul R., Ph.D. (University of Iowa, 1972), Professor of Physical Education

Torabi, Mohammad R., Ph.D. (Purdue University, 1982), Assistant Professor of Applied Health Science

Ulrich, Beverly, Ph.D. (Michigan State University, 1984), Assistant Professor Part-time in Physical Education

Ulrich, Dale Allen, Ph.D. (Michigan State University, 1981), Assistant Professor of Physical Education

Updyke, Wynn, F., Ph.D. (Michigan State University, 1962), Associate Dean for Academic Affairs of the School of Health, Physical Education, and Recreation, and Professor of Physical Education

Wallace, Janet Patricia, Ph.D. (The Pennsylvania State University, 1981), Associate Professor of Physical Education.

Wigglesworth, Janet K., M.S. (Southern Illinois University-Carbondale, 1979), Visiting Lecturer in Physical Education

Wolfe, James A., M.S. (Southern Illinois University-Carbondale, 1987), Coordinator, Informal Sports

Womble, Dale L., Ed.D. (Florida State University, 1955), Professor of Applied Health Science

Yarber, William L., H.S.D. (Indiana University, 1973), Professor of Applied Health Science

Yeagley, Jerad L., M.Ed. (University of Pittsburgh, 1963), Head Soccer Coach, and Assistant Professor of Physical Education
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 882 degree programs and 39 certificate programs, the University attracts students from all 50 states and around the world. The full-time faculty numbers over 3,000 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 of the state-supported universities. It serves more than 80,000 students on eight campuses. The residential campus at Bloomington and the urban center at Indianapolis form the core of the University system. Regional 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 provides its services without regard to sex, age, race, religion, ethnic origin, veteran status, or disability. An Affirmative Action Office on each campus monitors the University's policies and assists individuals who have questions or problems related to discrimination.

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 included in the student handbook, Ins & Outs, 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.

Freshmen Students\(^1\)

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

\(^1\) Some academic programs require specific qualifications in addition to those enumerated in this policy.
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 Students

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.

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.

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

Prospective students from out of state should be aware that the criteria for establishing in-state residency and thus qualifying for in-state fee rates are very strict. Except under specific circumstances, persons who have moved to Indiana for the primary purpose of attending a college, university, or other institution of higher education will not be able to qualify for in-state fees during their academic career. Rules for determining residency status are listed below.

Rules Determining Residency

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 administered 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 of 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 1988 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.

<table>
<thead>
<tr>
<th>ENROLLMENT FEES</th>
<th>Indiana Resident</th>
<th>Nonresident</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bloomington Campus</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Undergraduate$^1$</td>
<td>$62.90/credit hour</td>
<td>$181.60/credit hour</td>
</tr>
<tr>
<td>Graduate and Professional$^1$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business</td>
<td>$86/credit hour</td>
<td>$235/credit hour</td>
</tr>
<tr>
<td>Law</td>
<td>$86/credit hour</td>
<td>$235/credit hour</td>
</tr>
<tr>
<td>Optometry</td>
<td>$89/credit hour</td>
<td>$248/credit hour</td>
</tr>
<tr>
<td>Other</td>
<td>$82.10/credit hour</td>
<td>$229.70/credit hour</td>
</tr>
<tr>
<td>Independent Study (Correspondence)</td>
<td>$53/credit hour</td>
<td>$53/credit hour</td>
</tr>
<tr>
<td>Thesis enrollment (G901)$^2$</td>
<td>$100</td>
<td>$100</td>
</tr>
<tr>
<td>Auditing (no credit)</td>
<td>$20/credit hour</td>
<td>$20/credit hour</td>
</tr>
<tr>
<td><strong>Indianapolis Campus</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Undergraduate$^3$</td>
<td>$61.45/credit hour</td>
<td></td>
</tr>
<tr>
<td>Graduate and Professional$^1$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business</td>
<td>$86/credit hour</td>
<td>$235/credit hour</td>
</tr>
<tr>
<td>Dentistry</td>
<td>$4,800/year</td>
<td>$10,080/year</td>
</tr>
<tr>
<td>Law</td>
<td>$86/credit hour</td>
<td>$235/credit hour</td>
</tr>
<tr>
<td>Medicine</td>
<td>$4,900/year</td>
<td>$11,200/year</td>
</tr>
<tr>
<td>Other</td>
<td>$82.10/credit hour</td>
<td>$229.70/credit hour</td>
</tr>
<tr>
<td>Thesis enrollment (G901)$^2$</td>
<td>$100</td>
<td></td>
</tr>
<tr>
<td>Auditing (no credit)</td>
<td>applicable credit hour rate</td>
<td></td>
</tr>
</tbody>
</table>

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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/thesis. Enrollment in G901 is limited to six times. Students who do not meet these criteria pay the applicable credit hour rate for thesis enrollment.
<table>
<thead>
<tr>
<th>Administrative Fees</th>
<th>Bloomington Campus</th>
<th>Indianapolis Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application for admission</td>
<td>$20</td>
<td>$20</td>
</tr>
<tr>
<td>United States</td>
<td>$35</td>
<td>$35</td>
</tr>
<tr>
<td>Foreign</td>
<td>$15</td>
<td>$15</td>
</tr>
<tr>
<td>Deferred billing charge&lt;sup&gt;a&lt;/sup&gt;</td>
<td>$50</td>
<td>optional</td>
</tr>
<tr>
<td>Enrollment deposit for entering freshmen</td>
<td>$26</td>
<td>$26</td>
</tr>
<tr>
<td>Freshman Orientation</td>
<td>$38/semester</td>
<td>$16/Summer Session I</td>
</tr>
<tr>
<td>Health service fee&lt;sup&gt;a&lt;/sup&gt;</td>
<td>$22/Summer Session II</td>
<td>$22/Summer Session II</td>
</tr>
<tr>
<td>Late payment of fees</td>
<td>not applicable</td>
<td>$12/course</td>
</tr>
<tr>
<td>Late program change&lt;sup&gt;a&lt;/sup&gt;</td>
<td>$30 to $60</td>
<td>$6.25 or $12.45/semester</td>
</tr>
<tr>
<td>Late registration&lt;sup&gt;7&lt;/sup&gt;</td>
<td>$6.25 or $3.15</td>
<td>$30 to $60 or $12.45/semester</td>
</tr>
<tr>
<td>Student activity fee&lt;sup&gt;a&lt;/sup&gt;</td>
<td>$6.25 or $3.15</td>
<td>$2.50 or $5/semester</td>
</tr>
<tr>
<td>Technology fee&lt;sup&gt;a&lt;/sup&gt;</td>
<td>$5 to $25</td>
<td>$5 (active students)</td>
</tr>
<tr>
<td>Transcripts</td>
<td>$4 (active students)</td>
<td>$4 (active students)</td>
</tr>
<tr>
<td></td>
<td>$5 (past students)</td>
<td>$5 (past students)</td>
</tr>
</tbody>
</table>

<sup>3</sup> Applicable to both in-state and out-of-state students.

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

<sup>5</sup> 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 Student Health Center. On the Indianapolis campus, the health service fee is optional.

<sup>6</sup> 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.

<sup>7</sup> 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 $16 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, $32; third week, $48; fourth week, $65. No registration will be accepted after the fourth week of classes without the approval of the dean of faculties.

<sup>8</sup> 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 $12.45. Students enrolled for 3 or fewer credit hours pay $6.25. 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 $2.50 per semester. Full-time students enrolled in 9 or more credit hours pay $5 per semester.

<sup>9</sup> Students on the Bloomington campus must pay a mandatory technology fee of $5 for 1-3 credit hours, $10 for 4-6 credit hours, or $25 for 7 or more credit hours.
Fee Refund Schedule

Time of Withdrawal

<table>
<thead>
<tr>
<th>Week Range</th>
<th>Refund</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 through 16 weeks</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td>75%</td>
</tr>
<tr>
<td></td>
<td>50%</td>
</tr>
<tr>
<td></td>
<td>25%</td>
</tr>
<tr>
<td></td>
<td>None</td>
</tr>
<tr>
<td>5 through 8 weeks</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td>50%</td>
</tr>
<tr>
<td></td>
<td>None</td>
</tr>
<tr>
<td>2 through 4 weeks</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td>50%</td>
</tr>
<tr>
<td></td>
<td>None</td>
</tr>
<tr>
<td>1 week or less</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td>50%</td>
</tr>
<tr>
<td></td>
<td>None</td>
</tr>
</tbody>
</table>

The refund policy applies to credit hour fees and all course-related mandatory fees, wherein the student is required to pay a specific fee.

Procedure Students must apply to the Office of the Registrar and the Office of the Bursar when they withdraw from classes.

Fee Reductions and Financial Aid

Scholarships and Financial Aid Students can find information about loans and part-time employment through the Office of Scholarships and Financial Aids and through their schools or departments.

Fee Courtesy The following statements describe the privilege of fee courtesy extended to full-time or retired University faculty and staff by the trustees. For a full policy statement, please refer to personnel policy No. 18, revised January 1985, available in the personnel office of each campus.

Fees for a full-time employee (100 percent F.T.E.) who is appointed within the first week of a semester or summer sessions and enrolled in 1-6 credit hours will be assessed at one-half the resident credit hour rate at the campus where the employee enrolls, for the actual number of hours taken. Fees for up to 3 credit hours per semester or summer session may be refunded at the end of the semester if the employee achieves a grade of C or higher. Fees for more than 6 credit hours in a semester or summer sessions will be assessed at full resident rate on that campus.

The spouse of a full-time (100 percent F.T.E.) employee appointed within the first week of a semester or summer sessions will be entitled to a fee courtesy consisting of one-half of the resident undergraduate fee rate at the campus where the spouse enrolls for each credit hour up to the maximum of 3 credit hours per semester or summer sessions. This credit will be applied against the full fees of the student at the appropriate resident or nonresident rate.

Dependent children of full-time faculty and staff appointed within the first week of a semester or summer session will be entitled to a fee courtesy consisting of one-half of the resident undergraduate fee rate at the campus where the child enrolls. Dependent children are defined as all legally dependent children including stepchildren, children who have employees as their legal guardians, children of retired employees eligible for group life insurance benefits, children of disabled employees receiving long-term disability benefits, and children of deceased employees of 20 years or more full-time service.

The fee courtesy for dependent children will be granted only to students registered at Indiana University and only for the number of credit hours required to complete the curriculum in which the student is enrolled (up to 140 credit hours). This fee courtesy does not apply to graduate or post-baccalaureate professional study.

To receive fee courtesy for dependent children, the full-time employee must fill out the application titled Request for Fee Courtesy. — Dependent Children, available from the personnel office of each campus, and return the completed form to the personnel office prior to registration for verification of employment. If this application has not been approved and processed prior to registration, the student will be required to pay full fees and then will be issued a refund for the portion covered by the fee courtesy when the application is approved.
**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.

<table>
<thead>
<tr>
<th>Undergraduate Benefits</th>
<th>Fall &amp; Spring Semesters</th>
<th>Summer I</th>
<th>IUPUI Summer II</th>
<th>Bloomington Summer II</th>
</tr>
</thead>
<tbody>
<tr>
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<td>fewer than 6</td>
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<td>1</td>
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<td>1-2</td>
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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.
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